ACKNOWLEDGEMENT

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It gave me an immense pleasure while doing this project because it was not just a project but, a source to learn not just about project but also, I inculcated many qualities like responsibility, punctuality, confidence.

Doing work on time is something everyone needs to learn and through this project I have improved my timing and also it made my thinking skills better. A project is a bridge between theoretical and practical learning and with this thinking I worked on the project and made it successful due to timely support and efforts of all who helped me.

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ABOUT THE PROJECT

This Project is based on the connectivity between python and MySql.

Python is interpreted general purpose programming language. Its language construct as well as its object-oriented approach aim to help programmers write clear logical code for small and large-scale projects.

MySQL is Relational Database Management System (RDBMS) based on the SQL (Structured Query Language) queries. It is one of the most popular languages for accessing and managing the records in the table.

The primary goal of an air traffic control system is to keep aircraft safely separated and minimize delays. This is done by providing pilots with information and instructions on avoiding collisions, along with flight paths and altitudes that maximize safety and efficiency. Air traffic controllers also coordinate the arrival and departure of aircraft with ground personnel, such as baggage handlers, refuelers and maintenance crews.

LIST OF LIBRARIES

tkinter	Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.
datetime	The datetime module supplies classes for manipulating dates and times. While date and time arithmetic is supported, the focus of the implementation is on efficient attribute extraction for output formatting and manipulation
mysql.connector	MySQL Connector/Python enables Python programs to access MySQL databases, using an API that is compliant with the Python Database API Specification v2.0 (PEP 249). It is written in pure Python and does not have any dependencies except for the Python Standard Library.
Pillow	Python Imaging Library (expansion of PIL) is the image processing package for Python language. It incorporates lightweight image processing tools that aids in editing, creating and saving images. Pillow supports a large number of image file formats including BMP, PNG, JPEG, and TIFF.
pygame	Game programming is very rewarding nowadays and it can also be used in advertising and as a teaching tool too. Game development includes mathematics, logic, physics, AI, and much more and it can be amazingly fun. In python, game programming is done in pygame and it is one of the best modules for doing so.
gtts	There are several APIs available to convert text to speech in Python. One of such APIs is the Google Text to Speech API commonly known as the gTTS API. gTTS is a very easy to use tool which converts the text entered, into audio which can be saved as a mp3 file.
time	As the name suggests Python time module allows to work with time in python and it provides functions for handling time related tasks.

LIST OF FUNCTIONS

connect()	Used to create a connection between the MySQL database and the python application
cursor()	Used to make the connection for executing MySQL queries.
Tk()	Used to create a tkinter application instance
PhotoImage()	Used to return an image object.
gTTS.gTTS()	Used to convert text to speech.
gTTS.save()	Used to save the mp3 file.
mixer.init()	Used to initialize the mixer module for sound loading and playback.
mixer.music.load()	Used to load a music file and prepare it for playback.
mixer.music.play()	Used to start the playback of music loaded.

mixer.music.unload()	Used to unload the currently loaded music to free up resources.
isdigit()	Used to check if all characters in a string are digits.
fetchall()	Used to fetch all rows of a query result set and return a list of tuple.
commit()	Used to send a COMMIT statement to the MySQL server, committing the current transaction.
config()	Used to make changes in the Tkinter object.
append()	Used to append the list with an element.
remove()	Used to remove an element from a list.
insert()	Used to a add an element to a list.
mainloop()	Used to tell the Python to run the Tkinter event loop.

CODE

radar_final

```
from tkinter import *
import time
import mysql.connector as con
from PIL import Image,ImageTk
from datetime import datetime
from landing_final import landing_screen
from takeoff_final import takeoff_screen
import pygame
import gtts
def home():
    root1.destroy()
    mydb = con.connect(host="localhost",user="root",password="Mouse@2010",database="atc")
    cur = mydb.cursor()
    try:
        cur.execute("update coordinates set x=775,y=450 where flight_no='6E64' and frame_no=1")
        cur.execute("update coordinates set x=550,y=450 where flight_no='6E64' and frame_no=0")
        cur.execute("update heights set height=1750 where flight_no='6E64'")
    except:
        pass
    try:
        cur.execute("update coordinates set x=775,y=40 where flight_no='2' and frame_no=1")
        cur.execute("update coordinates set x=550,y=40 where flight_no='2' and frame_no=0")
        cur.execute("update heights set height=25000 where flight_no='2'")
    except:
        pass
    try:
        cur.execute("update coordinates set x=520,y=750 where flight_no='3'and frame_no=1")
        cur.execute("update coordinates set x=370,y=750 where flight_no='3' and frame_no=0")
        cur.execute("update heights set height=25000 where flight_no='3'")
    except:
        pass
    try:
        cur.execute("update coordinates set x=600,y=450 where flight_no='4' and frame_no=1")
        cur.execute("update coordinates set x=425,y=450 where flight_no='4' and frame_no=0")
    except:
        pass
    try:
        cur.execute("update coordinates set x=775,y=350 where flight_no='5' and frame_no=1")
        cur.execute("update coordinates set x=550,y=350 where flight_no='5' and frame_no=0")
    except:
        pass
    try:
        cur.execute("update coordinates set x=900,y=450 where flight_no='6' and frame_no=1")
        cur.execute("update coordinates set x=640,y=450 where flight_no='6' and frame_no=0")
    except:
        pass
    try:
        cur.execute("update coordinates set x=615,y=610 where flight_no='7' and frame_no=1")
        cur.execute("update coordinates set x=390,y=610 where flight_no='7' and frame_no=0")
    except:
        pass
    try:
        cur.execute("update coordinates set x=1000,y=300 where flight_no='8' and frame_no=1")
        cur.execute("update coordinates set x=710,y=300 where flight_no='8' and frame_no=0")
    except:
        pass
    try:
        cur.execute("update coordinates set x=775,y=850 where flight_no='9' and frame_no=1")
        cur.execute("update coordinates set x=550,y=850 where flight_no='9' and frame_no=0")
```

```
except:
    pass
try:
    cur.execute("update coordinates set x=475,y=150 where flight_no='10' and frame_no=1")
    cur.execute("update coordinates set x=340,y=150 where flight_no='10' and frame_no=0")
except:
    pass
try:
    cur.execute("update coordinates set x=900,y=150 where flight_no='11' and frame_no=1")
    cur.execute("update coordinates set x=640,y=150 where flight_no='11' and frame_no=0")
except:
    pass
try:
    cur.execute("update coordinates set x=950,y=350 where flight_no='12' and frame_no=1")
    cur.execute("update coordinates set x=660,y=350 where flight_no='12' and frame_no=0")
except:
    pass
try:
    cur.execute("update coordinates set x=500,y=750 where flight_no='13' and frame_no=1")
    cur.execute("update coordinates set x=355,y=750 where flight_no='13' and frame_no=0")
except:
    pass
try:
    cur.execute("update coordinates set x=500,y=150 where flight_no='14' and frame_no=1")
    cur.execute("update coordinates set x=355,y=150 where flight_no='14' and frame_no=0")
except:
    pass
try:
    cur.execute("update coordinates set x=775,y=450 where flight_no='15' and frame_no=1")
    cur.execute("update coordinates set x=550,y=450 where flight_no='15' and frame_no=0")
except:
    pass
mydb.commit()
root=Tk()
root.geometry("1550x900")
root.attributes('-fullscreen',True)
radar_img = PhotoImage(file=r"IMAGES\blue_radar.png")
white_airplane_n = PhotoImage(file=r"IMAGES\white_airplane_n.png")
white_airplane_ne = PhotoImage(file=r"IMAGES\white_airplane_ne.png")
white_airplane_e = PhotoImage(file=r"IMAGES\white_airplane_e.png")
white_airplane_se = PhotoImage(file=r"IMAGES\white_airplane_se.png")
white_airplane_s = PhotoImage(file=r"IMAGES\white_airplane_s.png")
white_airplane_sw = PhotoImage(file=r"IMAGES\white_airplane_sw.png")
white_airplane_w = PhotoImage(file=r"IMAGES\white_airplane_w.png")
white_airplane_nw = PhotoImage(file=r"IMAGES\white_airplane_nw.png")
blue_airplane_n = PhotoImage(file=r"IMAGES\blue_airplane_n.png")
blue_airplane_ne = PhotoImage(file=r"IMAGES\blue_airplane_ne.png")
blue_airplane_e = PhotoImage(file=r"IMAGES\blue_airplane_e.png")
blue_airplane_se = PhotoImage(file=r"IMAGES\blue_airplane_se.png")
blue_airplane_s = PhotoImage(file=r"IMAGES\blue_airplane_s.png")
blue_airplane_sw = PhotoImage(file=r"IMAGES\blue_airplane_sw.png")
blue_airplane_w = PhotoImage(file=r"IMAGES\blue_airplane_w.png")
blue_airplane_nw = PhotoImage(file=r"IMAGES\blue_airplane_nw.png")
exit_icon = PhotoImage(file=r"ICONS\EXIT.png")
def a():
    global details_frame1
    global radar_frame2
    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    details_frame1 = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame1.place(x=0,y=0)
    top_frame = Frame(details_frame1,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
```

```
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="FLIGHT DETAILS",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text=" ",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    plane1_frame = Frame(details_frame1,height=75,width=450,relief=SUNKEN,background="#262626")
    plane1_frame.place(x=0,y=75)
    exit1 = Button(plane1_frame,image=white_airplane_e,bg="#262626",relief=FLAT,command=flight1_details)
    exit1.place(x=375,y=10)
    flight_no_label = Label(plane1_frame,bg="#262626",fg="white",text="6E64",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(plane1_frame,bg="#262626",fg="white",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    plane2_frame = Frame(details_frame1,height=75,width=450,relief=SUNKEN,background="#262626")
    plane2_frame.place(x=0,y=150)
    exit1 = Button(plane2_frame,image=white_airplane_e,bg="#262626",relief=FLAT,command=flight2_details)
    exit1.place(x=375,y=10)
    flight_no_label = Label(plane2_frame,bg="#262626",fg="white",text="AI445",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(plane2_frame,bg="#262626",fg="white",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    plane3_frame = Frame(details_frame1,height=75,width=450,relief=SUNKEN,background="#262626")
    plane3_frame.place(x=0,y=225)
    exit1 = Button(plane3_frame,image=white_airplane_e,bg="#262626",relief=FLAT,command=flight3_details)
    exit1.place(x=375,y=10)
    flight_no_label = Label(plane3_frame,bg="#262626",fg="white",text="AI332",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(plane3_frame,bg="#262626",fg="white",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    plane4_frame = Frame(details_frame1,height=75,width=450,relief=SUNKEN,background="#262626")
    plane4_frame.place(x=0,y=300)
    exit1 = Button(plane4_frame,image=white_airplane_e,bg="#262626",relief=FLAT,command=flight4_details)
    exit1.place(x=375,y=10)
    flight_no_label = Label(plane4_frame,bg="#262626",fg="white",text="AI897",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(plane4_frame,bg="#262626",fg="white",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    plane5_frame = Frame(details_frame1,height=75,width=450,relief=SUNKEN,background="#262626")
    plane5_frame.place(x=0,y=375)
    exit1 = Button(plane5_frame,image=white_airplane_e,bg="#262626",relief=FLAT,command=flight5_details)
    exit1.place(x=375,y=10)
    flight_no_label = Label(plane5_frame,bg="#262626",fg="white",text="AI332",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(plane5_frame,bg="#262626",fg="white",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    plane6_frame = Frame(details_frame1,height=75,width=450,relief=SUNKEN,background="#262626")
    plane6_frame.place(x=0,y=450)
    exit1 = Button(plane6_frame,image=white_airplane_e,bg="#262626",relief=FLAT,command=flight6_details)
    exit1.place(x=375,y=10)
    flight_no_label = Label(plane6_frame,bg="#262626",fg="white",text="AI141",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(plane6_frame,bg="#262626",fg="white",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

#=============================================================================================================
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#=============================================================================================================
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    radar_frame2 = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame2.place(x=450,y=0)
    canvas = Canvas(radar_frame2,height=900,width=1100)
    canvas.pack()
    try:
```

```
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data = cur.fetchall()
    flight1x = data[0][0]
    flight1y = data[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data2 = cur.fetchall()
    flight2x = data2[0][0]
    flight2y = data2[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data3 = cur.fetchall()
    flight3x = data3[0][0]
    flight3y = data3[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data4 = cur.fetchall()
    flight4x = data4[0][0]
    flight4y = data4[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
```

```
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
```

```
except:
    pass
def key(event):
    pass
    # print("pressed", repr(event.char))

def callback(event):
    print("clicked at", event.x, event.y)
    try:
        diff = abs(int(flight1x)-int(event.x))
        if( diff < 10):
            b()
    except:
        pass

try:
    cur.execute("select height from heights where flight_no='6E64'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
    else:
        plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='2'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
    else:
        plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='3'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
        plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
```

```
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
        plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
```

```
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass
canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
```

```
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
```

```
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
```

```
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
```

```
        del flight3_yspeed
    except:
        pass
    try:
        if(flight4x < 170):
            del flight4y
            del flight4x
            del flight4_xspeed
            del flight4_yspeed
    except:
        pass
    try:
        if(flight5y < 50):
            del flight5y
            del flight5x
            del flight5_xspeed
            del flight5_yspeed
    except:
        pass
    try:
        if(flight6y > 700):
            del flight6y
            del flight6x
            del flight6_xspeed
            del flight6_yspeed
    except:
        pass
    try:
        if(flight7y < 450):
            del flight7y
            del flight7x
            del flight7_xspeed
            del flight7_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight8y > 700):
            del flight8y
            del flight8x
            del flight8_xspeed
            del flight8_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight9y < 450):
            del flight9y
            del flight9x
            del flight9_xspeed
            del flight9_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight10y > 360):
            del flight10y
            del flight10x
            del flight10_xspeed
            del flight10_yspeed
            # landing_screen()

    except:
        pass
    try:
        if(flight11y > 690):
            del flight11y
            del flight11x
            del flight11_xspeed
            del flight11_yspeed
            # landing_screen()
```

```
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass
global exit_function
def exit_function():
    try:
        details_frame.destroy()
        radar_frame.destroy()
    except:
        pass

    global radar_frame1

    radar_frame1 = Frame(root,height=900,width=1550,relief=SUNKEN,background="light blue")
    radar_frame1.place(x=0,y=0)
    canvas = Canvas(radar_frame1,height=900,width=1550)
    canvas.pack()

    try:
        cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
        data = cur.fetchall()
        flight1x = data[0][0]
        flight1y = data[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
        data2 = cur.fetchall()
        flight2x = data2[0][0]
        flight2y = data2[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
        data3 = cur.fetchall()
        flight3x = data3[0][0]
        flight3y = data3[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
        data4 = cur.fetchall()
        flight4x = data4[0][0]
        flight4y = data4[0][1]
    except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
   data15 = cur.fetchall()
   flight15x = data15[0][0]
   flight15y = data15[0][1]
except:
   pass
canvas.create_image(775,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
   try:
      cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
      data15 = cur.fetchall()
      flight15x = data15[0][0]
      flight15y = data15[0][1]
   except:
      pass
   def key(event):
      pass
      # print("pressed", repr(event.char))

   def callback(event):
      print("clicked at", event.x, event.y)
      try:
         diff = abs(int(flight1x)-int(event.x))
         if( diff < 10):
            flight1_details()
      except:
         pass
      try:
         diff = abs(int(flight2x)-int(event.x))
         if( diff < 10):
            flight2_details()
      except:
         pass
      try:
         diff = abs(int(flight3x)-int(event.x))
         if( diff < 10):
            flight3_details()
      except:
         pass
```

```
try:
   diff = abs(int(flight4x)-int(event.x))
   if( diff < 10):
      flight4_details()
except:
   pass
try:
   diff = abs(int(flight5x)-int(event.x))
   if( diff < 10):
      flight5_details()
except:
   pass
try:
   diff = abs(int(flight6x)-int(event.x))
   if( diff < 10):
      flight6_details()
except:
   pass
try:
   diff = abs(int(flight7x)-int(event.x))
   if( diff < 10):
      flight7_details()
except:
   pass
try:
   diff = abs(int(flight8x)-int(event.x))
   if( diff < 10):
      flight8_details()
except:
   pass
try:
   diff = abs(int(flight9x)-int(event.x))
   if( diff < 10):
      flight9_details()
except:
   pass
try:
   diff = abs(int(flight10x)-int(event.x))
   if( diff < 10):
      flight10_details()
except:
   pass
try:
   diff = abs(int(flight11x)-int(event.x))
   if( diff < 10):
      flight11_details()
except:
   pass
try:
   diff = abs(int(flight12x)-int(event.x))
   if( diff < 10):
      flight12_details()
except:
   pass
try:
   diff = abs(int(flight13x)-int(event.x))
   if( diff < 10):
      flight13_details()
except:
   pass
try:
   diff = abs(int(flight14x)-int(event.x))
   if( diff < 10):
      flight14_details()
except:
   pass
try:
   diff = abs(int(flight15x)-int(event.x))
   if( diff < 10):
      flight15_details()
except:
```

```
        pass

try:
    cur.execute("select height from heights where flight_no='6E64'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
    else:
        plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='2'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
    else:
        plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='3'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
        plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
          plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
```

```
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='9'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
        else:
            plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='10'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
        else:
            plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='11'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
        else:
            plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='12'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
        else:
            plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='13'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
        else:
            plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='14'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
        else:
            plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='15'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
        else:
            plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
    except:
        pass

    canvas.bind("<Key>", key)
    canvas.bind("<Button-1>", callback)
    canvas.update()
    time.sleep(2)
```

```
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
```

```
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
```

```
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
   mydb.commit()
except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 1100):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 380):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
```

```
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight9y < 450):
        del flight9y
        del flight9x
        del flight9_xspeed
        del flight9_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight10y > 360):
        del flight10y
        del flight10x
        del flight10_xspeed
        del flight10_yspeed
        # landing_screen()

except:
    pass
try:
    if(flight11y > 690):
        del flight11y
        del flight11x
        del flight11_xspeed
        del flight11_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight12y < 160):
        del flight12y
        del flight12x
        del flight12_xspeed
        del flight12_yspeed
        # landing_screen()
except:
    pass
try:
```

```
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass


global b
def flight1_details():
    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)
    try:
        cur.execute("select * from sky_details where flight_no='6E64'")
        data = cur.fetchall()
    except:
        pass
    if(data==[]):
        data=[['DNF','DNF','DNF','DNF','DNF','DNF','DNF','DNF','DNF','DNF','DNF','DNF']]

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="white",text=data[0][0],font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="white",text=data[0][8],font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text=data[0][4],bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    sch_time_label = Label(from_to_frame,text="SCH TIME"+" "+data[0][2],bg="#B8B8B8",font=("Arial",15,"bold"))
    sch_time_label.place(x=20,y=70)
    est_time_label = Label(from_to_frame,text="EST TIME"+" "+data[0][9],bg="#B8B8B8",font=("Arial",15,"bold"))
    est_time_label.place(x=20,y=110)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
```

```
    to_label = Label(from_to_frame,bg="#B8B8B8",text=data[0][5],font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)
    sch_time_label_landing = Label(from_to_frame,text="SCH TIME"+" "+data[0][3],bg="#B8B8B8",font=("Arial",15,"bold"))
    sch_time_label_landing.place(x=260,y=70)
    est_time_label_landing = Label(from_to_frame,text="EST TIME"+" "+data[0][10],bg="#B8B8B8",font=("Arial",15,"bold"))
    est_time_label_landing.place(x=260,y=110)

    other_info_frame = Frame(details_frame,bg="#808080",height=350,width=450,relief=SUNKEN)
    other_info_frame.place(x=0,y=550)
    height_label = Label(other_info_frame,text="CURRENT HEIGHT : "+str(data[0][1]),bg="#808080",font=("Arial",15,"bold"))
    height_label.place(x=20,y=5)
    max_height_label = Label(other_info_frame,text="MAXIMUM HEIGHT :
"+str(data[0][11]),bg="#808080",font=("Arial",15,"bold"))
    max_height_label.place(x=20,y=45)
    no_of_passenger_label = Label(other_info_frame,text="NO. OF PASSENGERS :
"+str(data[0][6]),bg="#808080",font=("Arial",15,"bold"))
    no_of_passenger_label.place(x=20,y=85)
    no_of_crew_label = Label(other_info_frame,text="NO. OF CREW : "+str(data[0][7]),bg="#808080",font=("Arial",15,"bold"))
    no_of_crew_label.place(x=20,y=125)




#=============================================================================================================
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#=============================================================================================================
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    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
        cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
        data = cur.fetchall()
        flight1x = data[0][0]
        flight1y = data[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
        data2 = cur.fetchall()
        flight2x = data2[0][0]
        flight2y = data2[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
        data3 = cur.fetchall()
        flight3x = data3[0][0]
        flight3y = data3[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
        data4 = cur.fetchall()
        flight4x = data4[0][0]
        flight4y = data4[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
        data5 = cur.fetchall()
        flight5x = data5[0][0]
        flight5y = data5[0][1]
    except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
```

```
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
```

```
try:
   cur.execute("select height from heights where flight_no='3'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
   else:
      plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='4'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
   else:
      plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='5'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
   else:
         plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='6'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
   else:
      plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='7'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
   else:
      plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='8'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
   else:
      plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='9'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
   else:
      plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='10'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
   else:
      plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
```

```
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
```

```
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
```

```
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
```

```
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
```

```
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
```

```
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
```

```
            del flight7_yspeed
            # landing_screen()
        except:
            pass
        try:
            if(flight8y > 700):
                del flight8y
                del flight8x
                del flight8_xspeed
                del flight8_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight9y < 450):
                del flight9y
                del flight9x
                del flight9_xspeed
                del flight9_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight10y > 360):
                del flight10y
                del flight10x
                del flight10_xspeed
                del flight10_yspeed
                # landing_screen()

        except:
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight2_details():
```

```
    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
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    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
        cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
        data = cur.fetchall()
        flight1x = data[0][0]
        flight1y = data[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
        data2 = cur.fetchall()
        flight2x = data2[0][0]
        flight2y = data2[0][1]
    except:
        pass
```

```
try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data3 = cur.fetchall()
    flight3x = data3[0][0]
    flight3y = data3[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data4 = cur.fetchall()
    flight4x = data4[0][0]
    flight4y = data4[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
```

```
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
```

```
        pass

try:
    cur.execute("select height from heights where flight_no='6E64'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
    else:
        plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='2'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
    else:
        plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='3'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
        plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
          plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
```

```
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='9'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
        else:
            plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='10'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
        else:
            plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='11'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
        else:
            plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='12'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
        else:
            plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='13'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
        else:
            plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='14'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
        else:
            plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='15'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
        else:
            plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
    except:
        pass

    canvas.bind("<Key>", key)
    canvas.bind("<Button-1>", callback)
    canvas.update()
    time.sleep(2)
```

```
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
```

```
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
```

```
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
   mydb.commit()
except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
```

```
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight9y < 450):
        del flight9y
        del flight9x
        del flight9_xspeed
        del flight9_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight10y > 360):
        del flight10y
        del flight10x
        del flight10_xspeed
        del flight10_yspeed
        # landing_screen()

except:
    pass
try:
    if(flight11y > 690):
        del flight11y
        del flight11x
        del flight11_xspeed
        del flight11_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight12y < 160):
        del flight12y
        del flight12x
        del flight12_xspeed
        del flight12_yspeed
        # landing_screen()
except:
    pass
try:
```

```
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

    def flight3_details():


        try:
            radar_frame2.destroy()
            details_frame1.destroy()
        except:
            pass
        try:
            radar_frame1.destroy()
        except:
            pass

        global details_frame
        global radar_frame
        details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
        details_frame.place(x=0,y=0)

        top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
        top_frame.place(x=0,y=0)
        exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
        exit1.place(x=375,y=10)
        flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
        flight_no_label.place(x=10,y=10)
        airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
        airline_name_label.place(x=10,y=45)

        photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
        photo_frame.place(x=0,y=75)
        image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
        img = image.resize((450,300))
        airplane_img = ImageTk.PhotoImage(img)
        img_label = Label(photo_frame,image=airplane_img)
        img_label.pack()

        from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
        from_to_frame.place(x=0,y=375)
        from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
        from_label.place(x=40,y=5)
        airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
        img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
        img_label.place(x=200,y=13)
        to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
        to_label.place(x=280,y=5)



#=============================================================================================================
===

#=============================================================================================================
===
```

```
radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
radar_frame.place(x=450,y=0)

canvas = Canvas(radar_frame,height=900,width=1100)
canvas.pack()

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data = cur.fetchall()
   flight1x = data[0][0]
   flight1y = data[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
   data2 = cur.fetchall()
   flight2x = data2[0][0]
   flight2y = data2[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
   data3 = cur.fetchall()
   flight3x = data3[0][0]
   flight3y = data3[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
   data4 = cur.fetchall()
   flight4x = data4[0][0]
   flight4y = data4[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
   data5 = cur.fetchall()
   flight5x = data5[0][0]
   flight5y = data5[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
   data6 = cur.fetchall()
   flight6x = data6[0][0]
   flight6y = data6[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
   data7 = cur.fetchall()
   flight7x = data7[0][0]
   flight7y = data7[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
   data8 = cur.fetchall()
   flight8x = data8[0][0]
   flight8y = data8[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
   data9 = cur.fetchall()
   flight9x = data9[0][0]
   flight9y = data9[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
```

```
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0
```

```
while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='3'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
        else:
            plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='4'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
        else:
            plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='5'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
        else:
            plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='6'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
```

```
      plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
      plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
      plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
      plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
      plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
      plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
      plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
      plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
      plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
```

```
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
```

```
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
```

```
except:
   pass
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
   pass
try:
   flight15x += flight15_xspeed
   flight15y += flight15_yspeed
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
   pass

try:
   data = cur.fetchall()
   x1 = data[0][0] + flight4_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight4_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight5_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
```

```
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
```

```
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
```

```
        del flight2_yspeed
    except:
        pass
    try:
        if(flight3x > 850):
            del flight3y
            del flight3x
            del flight3_xspeed
            del flight3_yspeed
    except:
        pass
    try:
        if(flight4x < 170):
            del flight4y
            del flight4x
            del flight4_xspeed
            del flight4_yspeed
    except:
        pass
    try:
        if(flight5y < 50):
            del flight5y
            del flight5x
            del flight5_xspeed
            del flight5_yspeed
    except:
        pass
    try:
        if(flight6y > 700):
            del flight6y
            del flight6x
            del flight6_xspeed
            del flight6_yspeed
    except:
        pass
    try:
        if(flight7y < 450):
            del flight7y
            del flight7x
            del flight7_xspeed
            del flight7_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight8y > 700):
            del flight8y
            del flight8x
            del flight8_xspeed
            del flight8_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight9y < 450):
            del flight9y
            del flight9x
            del flight9_xspeed
            del flight9_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight10y > 360):
            del flight10y
            del flight10x
            del flight10_xspeed
            del flight10_yspeed
            # landing_screen()

    except:
```

```
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight4_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
```

```
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
===

    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
       cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
       data = cur.fetchall()
       flight1x = data[0][0]
       flight1y = data[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
       data2 = cur.fetchall()
       flight2x = data2[0][0]
       flight2y = data2[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
       data3 = cur.fetchall()
       flight3x = data3[0][0]
       flight3y = data3[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
       data4 = cur.fetchall()
       flight4x = data4[0][0]
       flight4y = data4[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
       data5 = cur.fetchall()
       flight5x = data5[0][0]
       flight5y = data5[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
       data6 = cur.fetchall()
       flight6x = data6[0][0]
       flight6y = data6[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
       data7 = cur.fetchall()
```

```
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
```

```
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='3'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
        else:
            plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='4'")
```

```
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
        plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
```

```
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
```

```
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
```

```
except:
   pass
try:
   flight9x += flight9_xspeed
   flight9y += flight9_yspeed
except:
   pass
try:
   flight10x += flight10_xspeed
   flight10y += flight10_yspeed
except:
   pass
try:
   flight11x += flight11_xspeed
   flight11y += flight11_yspeed
except:
   pass
try:
   flight12x += flight12_xspeed
   flight12y += flight12_yspeed
except:
   pass
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
   pass
try:
   flight15x += flight15_xspeed
   flight15y += flight15_yspeed
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))
```

```
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
```

```
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
```

```
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
```

```
        except:
            pass
        try:
            if(flight9y < 450):
                del flight9y
                del flight9x
                del flight9_xspeed
                del flight9_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight10y > 360):
                del flight10y
                del flight10x
                del flight10_xspeed
                del flight10_yspeed
                # landing_screen()

        except:
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight5_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass
```

```
    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
===

#=============================================================================================================
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    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
       cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
       data = cur.fetchall()
       flight1x = data[0][0]
       flight1y = data[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
       data2 = cur.fetchall()
       flight2x = data2[0][0]
       flight2y = data2[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
       data3 = cur.fetchall()
       flight3x = data3[0][0]
       flight3y = data3[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
       data4 = cur.fetchall()
       flight4x = data4[0][0]
```

```
    flight4y = data4[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
```

```
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
   data15 = cur.fetchall()
   flight15x = data15[0][0]
   flight15y = data15[0][1]
except:
   pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
   try:
      cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
      data15 = cur.fetchall()
      flight15x = data15[0][0]
      flight15y = data15[0][1]
   except:
      pass
   def key(event):
      pass
      # print("pressed", repr(event.char))

   def callback(event):
      print("clicked at", event.x, event.y)
      try:
         diff = abs(int(flight1x)-int(event.x))
         if( diff < 10):
            b()
      except:
         pass

   try:
      cur.execute("select height from heights where flight_no='6E64'")
      data=cur.fetchall()
      if(data[0][0] > 15000):
         plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
      else:
         plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
   except:
      pass
```

```
try:
   cur.execute("select height from heights where flight_no='2'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
   else:
      plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='3'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
   else:
      plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='4'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
   else:
      plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='5'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
   else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='6'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
   else:
      plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='7'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
   else:
      plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='8'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
   else:
      plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='9'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
   else:
      plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
```

```
    pass
try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
```

```
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
```

```
except:
   pass
try:
   flight5x += flight5_xspeed
   flight5y += flight5_yspeed
except:
   pass
try:
   flight6x += flight6_xspeed
   flight6y += flight6_yspeed
except:
   pass
try:
   flight7x += flight7_xspeed
   flight7y += flight7_yspeed
except:
   pass
try:
   flight8x += flight8_xspeed
   flight8y += flight8_yspeed
except:
   pass
try:
   flight9x += flight9_xspeed
   flight9y += flight9_yspeed
except:
   pass
try:
   flight10x += flight10_xspeed
   flight10y += flight10_yspeed
except:
   pass
try:
   flight11x += flight11_xspeed
   flight11y += flight11_yspeed
except:
   pass
try:
   flight12x += flight12_xspeed
   flight12y += flight12_yspeed
except:
   pass
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
   pass
try:
   flight15x += flight15_xspeed
   flight15y += flight15_yspeed
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
   pass

try:
```

```
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
```

```
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight15_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight15_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
   mydb.commit()
except:
   pass

try:
   if (flight1y < 200):
      del flight1y
      del flight1x
      del flight1_xspeed
      del flight1_yspeed
except:
   pass
try:
   if(flight2y > 422):
      del flight2y
      del flight2x
      del flight2_xspeed
      del flight2_yspeed
except:
   pass
try:
   if(flight3x > 850):
      del flight3y
      del flight3x
      del flight3_xspeed
      del flight3_yspeed
except:
   pass
try:
   if(flight4x < 170):
      del flight4y
      del flight4x
      del flight4_xspeed
      del flight4_yspeed
except:
   pass
try:
   if(flight5y < 50):
      del flight5y
      del flight5x
      del flight5_xspeed
      del flight5_yspeed
except:
   pass
try:
   if(flight6y > 700):
      del flight6y
      del flight6x
```

```
        del flight6_xspeed
        del flight6_yspeed
    except:
        pass
    try:
        if(flight7y < 450):
            del flight7y
            del flight7x
            del flight7_xspeed
            del flight7_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight8y > 700):
            del flight8y
            del flight8x
            del flight8_xspeed
            del flight8_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight9y < 450):
            del flight9y
            del flight9x
            del flight9_xspeed
            del flight9_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight10y > 360):
            del flight10y
            del flight10x
            del flight10_xspeed
            del flight10_yspeed
            # landing_screen()

    except:
        pass
    try:
        if(flight11y > 690):
            del flight11y
            del flight11x
            del flight11_xspeed
            del flight11_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight12y < 160):
            del flight12y
            del flight12x
            del flight12_xspeed
            del flight12_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight13y < 100):
            del flight13y
            del flight13x
            del flight13_xspeed
            del flight13_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight14y > 750):
            del flight14y
```

```
            del flight14x
            del flight14_xspeed
            del flight14_yspeed
            # landing_screen()
        except:
            pass

    def flight6_details():


        try:
            radar_frame2.destroy()
            details_frame1.destroy()
        except:
            pass
        try:
            radar_frame1.destroy()
        except:
            pass

        global details_frame
        global radar_frame
        details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
        details_frame.place(x=0,y=0)

        top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
        top_frame.place(x=0,y=0)
        exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
        exit1.place(x=375,y=10)
        flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
        flight_no_label.place(x=10,y=10)
        airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
        airline_name_label.place(x=10,y=45)

        photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
        photo_frame.place(x=0,y=75)
        image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
        img = image.resize((450,300))
        airplane_img = ImageTk.PhotoImage(img)
        img_label = Label(photo_frame,image=airplane_img)
        img_label.pack()

        from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
        from_to_frame.place(x=0,y=375)
        from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
        from_label.place(x=40,y=5)
        airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
        img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
        img_label.place(x=200,y=13)
        to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
        to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
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        radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
        radar_frame.place(x=450,y=0)

        canvas = Canvas(radar_frame,height=900,width=1100)
        canvas.pack()

        try:
            cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
            data = cur.fetchall()
            flight1x = data[0][0]
            flight1y = data[0][1]
```

```
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data2 = cur.fetchall()
    flight2x = data2[0][0]
    flight2y = data2[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data3 = cur.fetchall()
    flight3x = data3[0][0]
    flight3y = data3[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data4 = cur.fetchall()
    flight4x = data4[0][0]
    flight4y = data4[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
```

```
    # print("pressed", repr(event.char))

def callback(event):
    print("clicked at", event.x, event.y)
    try:
        diff = abs(int(flight1x)-int(event.x))
        if( diff < 10):
            b()
    except:
        pass

try:
    cur.execute("select height from heights where flight_no='6E64'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
    else:
        plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='2'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
    else:
        plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='3'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
        plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
```

```
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='8'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
        else:
            plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='9'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
        else:
            plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='10'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
        else:
            plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='11'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
        else:
            plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='12'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
        else:
            plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='13'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
        else:
            plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='14'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
        else:
            plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='15'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
```

```
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
```

```
canvas.update()

try:
   flight1x += flight1_xspeed
   flight1y += flight1_yspeed
except:
   pass
try:
   flight2x += flight2_xspeed
   flight2y += flight2_yspeed
except:
   pass
try:
   flight3x += flight3_xspeed
   flight3y += flight3_yspeed
except:
   pass
try:
   flight4x += flight4_xspeed
   flight4y += flight4_yspeed
except:
   pass
try:
   flight5x += flight5_xspeed
   flight5y += flight5_yspeed
except:
   pass
try:
   flight6x += flight6_xspeed
   flight6y += flight6_yspeed
except:
   pass
try:
   flight7x += flight7_xspeed
   flight7y += flight7_yspeed
except:
   pass
try:
   flight8x += flight8_xspeed
   flight8y += flight8_yspeed
except:
   pass
try:
   flight9x += flight9_xspeed
   flight9y += flight9_yspeed
except:
   pass
try:
   flight10x += flight10_xspeed
   flight10y += flight10_yspeed
except:
   pass
try:
   flight11x += flight11_xspeed
   flight11y += flight11_yspeed
except:
   pass
try:
   flight12x += flight12_xspeed
   flight12y += flight12_yspeed
except:
   pass
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
```

```
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
```

```
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
```

```
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
```

```
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight9y < 450):
        del flight9y
        del flight9x
        del flight9_xspeed
        del flight9_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight10y > 360):
        del flight10y
        del flight10x
        del flight10_xspeed
        del flight10_yspeed
        # landing_screen()

except:
    pass
try:
    if(flight11y > 690):
        del flight11y
        del flight11x
        del flight11_xspeed
        del flight11_yspeed
        # landing_screen()
except:
    pass
try:
```

```
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight7_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)
```

```
#=============================================================================================================
===

#=============================================================================================================
===

    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
       cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
       data = cur.fetchall()
       flight1x = data[0][0]
       flight1y = data[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
       data2 = cur.fetchall()
       flight2x = data2[0][0]
       flight2y = data2[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
       data3 = cur.fetchall()
       flight3x = data3[0][0]
       flight3y = data3[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
       data4 = cur.fetchall()
       flight4x = data4[0][0]
       flight4y = data4[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
       data5 = cur.fetchall()
       flight5x = data5[0][0]
       flight5y = data5[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
       data6 = cur.fetchall()
       flight6x = data6[0][0]
       flight6y = data6[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
       data7 = cur.fetchall()
       flight7x = data7[0][0]
       flight7y = data7[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
       data8 = cur.fetchall()
       flight8x = data8[0][0]
       flight8y = data8[0][1]
    except:
       pass
```

```
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
```

```
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='3'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
        else:
            plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='4'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
        else:
            plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='5'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
```

```
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
            plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
        plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
```

```
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
```

```
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
```

```
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
```

```
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
```

```
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
```

```
        del flight1_xspeed
        del flight1_yspeed
    except:
        pass
    try:
        if(flight2y > 422):
            del flight2y
            del flight2x
            del flight2_xspeed
            del flight2_yspeed
    except:
        pass
    try:
        if(flight3x > 850):
            del flight3y
            del flight3x
            del flight3_xspeed
            del flight3_yspeed
    except:
        pass
    try:
        if(flight4x < 170):
            del flight4y
            del flight4x
            del flight4_xspeed
            del flight4_yspeed
    except:
        pass
    try:
        if(flight5y < 50):
            del flight5y
            del flight5x
            del flight5_xspeed
            del flight5_yspeed
    except:
        pass
    try:
        if(flight6y > 700):
            del flight6y
            del flight6x
            del flight6_xspeed
            del flight6_yspeed
    except:
        pass
    try:
        if(flight7y < 450):
            del flight7y
            del flight7x
            del flight7_xspeed
            del flight7_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight8y > 700):
            del flight8y
            del flight8x
            del flight8_xspeed
            del flight8_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight9y < 450):
            del flight9y
            del flight9x
            del flight9_xspeed
            del flight9_yspeed
            # landing_screen()
    except:
        pass
```

```
        try:
            if(flight10y > 360):
                del flight10y
                del flight10x
                del flight10_xspeed
                del flight10_yspeed
                # landing_screen()

        except:
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight8_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
```

```
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
===

#=============================================================================================================
===

    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
       cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
       data = cur.fetchall()
       flight1x = data[0][0]
       flight1y = data[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
       data2 = cur.fetchall()
       flight2x = data2[0][0]
       flight2y = data2[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
       data3 = cur.fetchall()
       flight3x = data3[0][0]
       flight3y = data3[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
       data4 = cur.fetchall()
       flight4x = data4[0][0]
       flight4y = data4[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
       data5 = cur.fetchall()
       flight5x = data5[0][0]
       flight5y = data5[0][1]
    except:
       pass
    try:
```

```
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
```

```
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='3'")
```

```
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
        plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
        plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
```

```
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
```

```
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
```

```
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
   pass

try:
   data = cur.fetchall()
   x1 = data[0][0] + flight4_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight4_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight5_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight5_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight6_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
   cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight6_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
   mydb.commit()
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
   mydb.commit()
```

```
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight13_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
   cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight13_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
```

```
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
```

```
        except:
            pass
        try:
            if(flight8y > 700):
                del flight8y
                del flight8x
                del flight8_xspeed
                del flight8_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight9y < 450):
                del flight9y
                del flight9x
                del flight9_xspeed
                del flight9_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight10y > 360):
                del flight10y
                del flight10x
                del flight10_xspeed
                del flight10_yspeed
                # landing_screen()

        except:
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight9_details():


    try:
```

```
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
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    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
        cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
        data = cur.fetchall()
        flight1x = data[0][0]
        flight1y = data[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
        data2 = cur.fetchall()
        flight2x = data2[0][0]
        flight2y = data2[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
```

```
    data3 = cur.fetchall()
    flight3x = data3[0][0]
    flight3y = data3[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data4 = cur.fetchall()
    flight4x = data4[0][0]
    flight4y = data4[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
```

```
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass
```

```
try:
   cur.execute("select height from heights where flight_no='6E64'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
   else:
      plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='2'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
   else:
      plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='3'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
   else:
      plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='4'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
   else:
      plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='5'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
   else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='6'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
   else:
      plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='7'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
   else:
      plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='8'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
   else:
      plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
```

```
    pass
try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
        plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
```

```
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
```

```
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
```

```
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
```

```
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
```

```
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
```

```
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
    except:
        pass
    try:
        if(flight6y > 700):
            del flight6y
            del flight6x
            del flight6_xspeed
            del flight6_yspeed
    except:
        pass
    try:
        if(flight7y < 450):
            del flight7y
            del flight7x
            del flight7_xspeed
            del flight7_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight8y > 700):
            del flight8y
            del flight8x
            del flight8_xspeed
            del flight8_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight9y < 450):
            del flight9y
            del flight9x
            del flight9_xspeed
            del flight9_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight10y > 360):
            del flight10y
            del flight10x
            del flight10_xspeed
            del flight10_yspeed
            # landing_screen()

    except:
        pass
    try:
        if(flight11y > 690):
            del flight11y
            del flight11x
            del flight11_xspeed
            del flight11_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight12y < 160):
            del flight12y
            del flight12x
            del flight12_xspeed
            del flight12_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight13y < 100):
            del flight13y
```

```
            del flight13x
            del flight13_xspeed
            del flight13_yspeed
            # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

    def flight10_details():


        try:
            radar_frame2.destroy()
            details_frame1.destroy()
        except:
            pass
        try:
            radar_frame1.destroy()
        except:
            pass

        global details_frame
        global radar_frame
        details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
        details_frame.place(x=0,y=0)

        top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
        top_frame.place(x=0,y=0)
        exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
        exit1.place(x=375,y=10)
        flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
        flight_no_label.place(x=10,y=10)
        airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
        airline_name_label.place(x=10,y=45)

        photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
        photo_frame.place(x=0,y=75)
        image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
        img = image.resize((450,300))
        airplane_img = ImageTk.PhotoImage(img)
        img_label = Label(photo_frame,image=airplane_img)
        img_label.pack()

        from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
        from_to_frame.place(x=0,y=375)
        from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
        from_label.place(x=40,y=5)
        airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
        img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
        img_label.place(x=200,y=13)
        to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
        to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
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        radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
        radar_frame.place(x=450,y=0)
```

```
canvas = Canvas(radar_frame,height=900,width=1100)
canvas.pack()

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data = cur.fetchall()
   flight1x = data[0][0]
   flight1y = data[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
   data2 = cur.fetchall()
   flight2x = data2[0][0]
   flight2y = data2[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
   data3 = cur.fetchall()
   flight3x = data3[0][0]
   flight3y = data3[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
   data4 = cur.fetchall()
   flight4x = data4[0][0]
   flight4y = data4[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
   data5 = cur.fetchall()
   flight5x = data5[0][0]
   flight5y = data5[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
   data6 = cur.fetchall()
   flight6x = data6[0][0]
   flight6y = data6[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
   data7 = cur.fetchall()
   flight7x = data7[0][0]
   flight7y = data7[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
   data8 = cur.fetchall()
   flight8x = data8[0][0]
   flight8y = data8[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
   data9 = cur.fetchall()
   flight9x = data9[0][0]
   flight9y = data9[0][1]
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
   data10 = cur.fetchall()
   flight10x = data10[0][0]
```

```
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
   data15 = cur.fetchall()
   flight15x = data15[0][0]
   flight15y = data15[0][1]
except:
   pass
def key(event):
   pass
   # print("pressed", repr(event.char))

def callback(event):
   print("clicked at", event.x, event.y)
   try:
      diff = abs(int(flight1x)-int(event.x))
      if( diff < 10):
         b()
   except:
      pass

try:
   cur.execute("select height from heights where flight_no='6E64'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
   else:
      plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='2'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
   else:
      plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='3'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
   else:
      plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='4'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
   else:
      plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='5'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
   else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
   pass
try:
   cur.execute("select height from heights where flight_no='6'")
   data=cur.fetchall()
   if(data[0][0] > 15000):
      plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
   else:
```

```
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='7'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
        else:
            plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='8'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
        else:
            plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='9'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
        else:
            plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='10'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
        else:
            plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='11'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
        else:
            plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='12'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
        else:
            plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='13'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
        else:
            plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='14'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
```

```
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
```

```
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
```

```
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
   pass
try:
   flight15x += flight15_xspeed
   flight15y += flight15_yspeed
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
   pass

try:
   data = cur.fetchall()
   x1 = data[0][0] + flight4_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight4_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight5_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
   data1 = cur.fetchall()
```

```
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
```

```
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
```

```
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight9y < 450):
        del flight9y
        del flight9x
        del flight9_xspeed
        del flight9_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight10y > 360):
        del flight10y
        del flight10x
        del flight10_xspeed
        del flight10_yspeed
        # landing_screen()

except:
    pass
try:
```

```
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight11_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()
```

```
    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
===

    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
       cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
       data = cur.fetchall()
       flight1x = data[0][0]
       flight1y = data[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
       data2 = cur.fetchall()
       flight2x = data2[0][0]
       flight2y = data2[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
       data3 = cur.fetchall()
       flight3x = data3[0][0]
       flight3y = data3[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
       data4 = cur.fetchall()
       flight4x = data4[0][0]
       flight4y = data4[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
       data5 = cur.fetchall()
       flight5x = data5[0][0]
       flight5y = data5[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
       data6 = cur.fetchall()
       flight6x = data6[0][0]
       flight6y = data6[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
       data7 = cur.fetchall()
       flight7x = data7[0][0]
       flight7y = data7[0][1]
```

```
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
```

```
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='3'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
        else:
            plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='4'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
```

```
      plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
      plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
      plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
      plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
      plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
      plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
      plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
      plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
```

```
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
```

```
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
```

```
try:
   flight9x += flight9_xspeed
   flight9y += flight9_yspeed
except:
   pass
try:
   flight10x += flight10_xspeed
   flight10y += flight10_yspeed
except:
   pass
try:
   flight11x += flight11_xspeed
   flight11y += flight11_yspeed
except:
   pass
try:
   flight12x += flight12_xspeed
   flight12y += flight12_yspeed
except:
   pass
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
   pass
try:
   flight15x += flight15_xspeed
   flight15y += flight15_yspeed
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight2_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
   cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight3_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

   cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
```

```
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
```

```
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
```

```
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
except:
    pass
```

```
        try:
            if(flight9y < 450):
                del flight9y
                del flight9x
                del flight9_xspeed
                del flight9_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight10y > 360):
                del flight10y
                del flight10x
                del flight10_xspeed
                del flight10_yspeed
                # landing_screen()

        except:
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight12_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
```

```
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
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    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
        cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
        data = cur.fetchall()
        flight1x = data[0][0]
        flight1y = data[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
        data2 = cur.fetchall()
        flight2x = data2[0][0]
        flight2y = data2[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
        data3 = cur.fetchall()
        flight3x = data3[0][0]
        flight3y = data3[0][1]
    except:
        pass
    try:
        cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
        data4 = cur.fetchall()
        flight4x = data4[0][0]
        flight4y = data4[0][1]
    except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
   data15 = cur.fetchall()
   flight15x = data15[0][0]
   flight15y = data15[0][1]
except:
   pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
   try:
      cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
      data15 = cur.fetchall()
      flight15x = data15[0][0]
      flight15y = data15[0][1]
   except:
      pass
   def key(event):
      pass
      # print("pressed", repr(event.char))

   def callback(event):
      print("clicked at", event.x, event.y)
      try:
         diff = abs(int(flight1x)-int(event.x))
         if( diff < 10):
            b()
      except:
         pass

   try:
      cur.execute("select height from heights where flight_no='6E64'")
      data=cur.fetchall()
      if(data[0][0] > 15000):
         plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
      else:
         plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
   except:
      pass
   try:
      cur.execute("select height from heights where flight_no='2'")
```

```
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
    else:
        plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='3'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
        plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
        plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
        plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
    pass
try:
```

```
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
```

```
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
```

```
try:
   flight5x += flight5_xspeed
   flight5y += flight5_yspeed
except:
   pass
try:
   flight6x += flight6_xspeed
   flight6y += flight6_yspeed
except:
   pass
try:
   flight7x += flight7_xspeed
   flight7y += flight7_yspeed
except:
   pass
try:
   flight8x += flight8_xspeed
   flight8y += flight8_yspeed
except:
   pass
try:
   flight9x += flight9_xspeed
   flight9y += flight9_yspeed
except:
   pass
try:
   flight10x += flight10_xspeed
   flight10y += flight10_yspeed
except:
   pass
try:
   flight11x += flight11_xspeed
   flight11y += flight11_yspeed
except:
   pass
try:
   flight12x += flight12_xspeed
   flight12y += flight12_yspeed
except:
   pass
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
   pass
try:
   flight15x += flight15_xspeed
   flight15y += flight15_yspeed
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
   cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight1_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
   data = cur.fetchall()
```

```
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
```

```
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight15_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
   cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight15_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
   mydb.commit()
except:
   pass

try:
   if (flight1y < 200):
      del flight1y
      del flight1x
      del flight1_xspeed
      del flight1_yspeed
except:
   pass
try:
   if(flight2y > 422):
      del flight2y
      del flight2x
      del flight2_xspeed
      del flight2_yspeed
except:
   pass
try:
   if(flight3x > 850):
      del flight3y
      del flight3x
      del flight3_xspeed
      del flight3_yspeed
except:
   pass
try:
   if(flight4x < 170):
      del flight4y
      del flight4x
      del flight4_xspeed
      del flight4_yspeed
except:
   pass
try:
   if(flight5y < 50):
      del flight5y
      del flight5x
      del flight5_xspeed
      del flight5_yspeed
except:
   pass
try:
   if(flight6y > 700):
      del flight6y
      del flight6x
      del flight6_xspeed
      del flight6_yspeed
```

```
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight9y < 450):
        del flight9y
        del flight9x
        del flight9_xspeed
        del flight9_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight10y > 360):
        del flight10y
        del flight10x
        del flight10_xspeed
        del flight10_yspeed
        # landing_screen()

except:
    pass
try:
    if(flight11y > 690):
        del flight11y
        del flight11x
        del flight11_xspeed
        del flight11_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight12y < 160):
        del flight12y
        del flight12x
        del flight12_xspeed
        del flight12_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight13y < 100):
        del flight13y
        del flight13x
        del flight13_xspeed
        del flight13_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight14y > 750):
        del flight14y
        del flight14x
        del flight14_xspeed
```

```
            del flight14_yspeed
            # landing_screen()
        except:
            pass

    def flight13_details():


        try:
            radar_frame2.destroy()
            details_frame1.destroy()
        except:
            pass
        try:
            radar_frame1.destroy()
        except:
            pass

        global details_frame
        global radar_frame
        details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
        details_frame.place(x=0,y=0)

        top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
        top_frame.place(x=0,y=0)
        exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
        exit1.place(x=375,y=10)
        flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
        flight_no_label.place(x=10,y=10)
        airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
        airline_name_label.place(x=10,y=45)

        photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
        photo_frame.place(x=0,y=75)
        image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
        img = image.resize((450,300))
        airplane_img = ImageTk.PhotoImage(img)
        img_label = Label(photo_frame,image=airplane_img)
        img_label.pack()

        from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
        from_to_frame.place(x=0,y=375)
        from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
        from_label.place(x=40,y=5)
        airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
        img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
        img_label.place(x=200,y=13)
        to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
        to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
===

        radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
        radar_frame.place(x=450,y=0)

        canvas = Canvas(radar_frame,height=900,width=1100)
        canvas.pack()

        try:
            cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
            data = cur.fetchall()
            flight1x = data[0][0]
            flight1y = data[0][1]
        except:
            pass
```

```
try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data2 = cur.fetchall()
    flight2x = data2[0][0]
    flight2y = data2[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data3 = cur.fetchall()
    flight3x = data3[0][0]
    flight3y = data3[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data4 = cur.fetchall()
    flight4x = data4[0][0]
    flight4y = data4[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data5 = cur.fetchall()
    flight5x = data5[0][0]
    flight5y = data5[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data6 = cur.fetchall()
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
```

```
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))
```

```
def callback(event):
    print("clicked at", event.x, event.y)
    try:
        diff = abs(int(flight1x)-int(event.x))
        if( diff < 10):
            b()
    except:
        pass

try:
    cur.execute("select height from heights where flight_no='6E64'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
    else:
        plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='2'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
    else:
        plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='3'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
        plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
        plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
            plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
        plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
        plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
except:
```

```
    pass
try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
        plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
        plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
        plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
```

```
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()
```

```
try:
   flight1x += flight1_xspeed
   flight1y += flight1_yspeed
except:
   pass
try:
   flight2x += flight2_xspeed
   flight2y += flight2_yspeed
except:
   pass
try:
   flight3x += flight3_xspeed
   flight3y += flight3_yspeed
except:
   pass
try:
   flight4x += flight4_xspeed
   flight4y += flight4_yspeed
except:
   pass
try:
   flight5x += flight5_xspeed
   flight5y += flight5_yspeed
except:
   pass
try:
   flight6x += flight6_xspeed
   flight6y += flight6_yspeed
except:
   pass
try:
   flight7x += flight7_xspeed
   flight7y += flight7_yspeed
except:
   pass
try:
   flight8x += flight8_xspeed
   flight8y += flight8_yspeed
except:
   pass
try:
   flight9x += flight9_xspeed
   flight9y += flight9_yspeed
except:
   pass
try:
   flight10x += flight10_xspeed
   flight10y += flight10_yspeed
except:
   pass
try:
   flight11x += flight11_xspeed
   flight11y += flight11_yspeed
except:
   pass
try:
   flight12x += flight12_xspeed
   flight12y += flight12_yspeed
except:
   pass
try:
   flight13x += flight13_xspeed
   flight13y += flight13_yspeed
except:
   pass
try:
   flight14x += flight14_xspeed
   flight14y += flight14_yspeed
except:
   pass
try:
```

```
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
```

```
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight9_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight10_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
```

```
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
```

```
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
    except:
        pass
    try:
        if(flight5y < 50):
            del flight5y
            del flight5x
            del flight5_xspeed
            del flight5_yspeed
    except:
        pass
    try:
        if(flight6y > 700):
            del flight6y
            del flight6x
            del flight6_xspeed
            del flight6_yspeed
    except:
        pass
    try:
        if(flight7y < 450):
            del flight7y
            del flight7x
            del flight7_xspeed
            del flight7_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight8y > 700):
            del flight8y
            del flight8x
            del flight8_xspeed
            del flight8_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight9y < 450):
            del flight9y
            del flight9x
            del flight9_xspeed
            del flight9_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight10y > 360):
            del flight10y
            del flight10x
            del flight10_xspeed
            del flight10_yspeed
            # landing_screen()

    except:
        pass
    try:
        if(flight11y > 690):
            del flight11y
            del flight11x
            del flight11_xspeed
            del flight11_yspeed
            # landing_screen()
    except:
        pass
    try:
        if(flight12y < 160):
            del flight12y
```

```
            del flight12x
            del flight12_xspeed
            del flight12_yspeed
            # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight14_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)
```

```
#=============================================================================================================
===

#=============================================================================================================
===

    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
       cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
       data = cur.fetchall()
       flight1x = data[0][0]
       flight1y = data[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
       data2 = cur.fetchall()
       flight2x = data2[0][0]
       flight2y = data2[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
       data3 = cur.fetchall()
       flight3x = data3[0][0]
       flight3y = data3[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
       data4 = cur.fetchall()
       flight4x = data4[0][0]
       flight4y = data4[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
       data5 = cur.fetchall()
       flight5x = data5[0][0]
       flight5y = data5[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
       data6 = cur.fetchall()
       flight6x = data6[0][0]
       flight6y = data6[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
       data7 = cur.fetchall()
       flight7x = data7[0][0]
       flight7y = data7[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
       data8 = cur.fetchall()
       flight8x = data8[0][0]
       flight8y = data8[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
```

```
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
```

```
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='3'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
        else:
            plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='4'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
        else:
            plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='5'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
        else:
```

```
            plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='6'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
        else:
            plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='7'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
        else:
            plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='8'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
        else:
            plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='9'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
        else:
            plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='10'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
        else:
            plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='11'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
        else:
            plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='12'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
        else:
            plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='13'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
```

```
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
```

```
try:
   canvas.delete(plane12)
except:
   pass
try:
   canvas.delete(plane13)
except:
   pass
try:
   canvas.delete(plane14)
except:
   pass
try:
   canvas.delete(plane15)
except:
   pass
canvas.update()
time.sleep(2)
canvas.update()

try:
   flight1x += flight1_xspeed
   flight1y += flight1_yspeed
except:
   pass
try:
   flight2x += flight2_xspeed
   flight2y += flight2_yspeed
except:
   pass
try:
   flight3x += flight3_xspeed
   flight3y += flight3_yspeed
except:
   pass
try:
   flight4x += flight4_xspeed
   flight4y += flight4_yspeed
except:
   pass
try:
   flight5x += flight5_xspeed
   flight5y += flight5_yspeed
except:
   pass
try:
   flight6x += flight6_xspeed
   flight6y += flight6_yspeed
except:
   pass
try:
   flight7x += flight7_xspeed
   flight7y += flight7_yspeed
except:
   pass
try:
   flight8x += flight8_xspeed
   flight8y += flight8_yspeed
except:
   pass
try:
   flight9x += flight9_xspeed
   flight9y += flight9_yspeed
except:
   pass
try:
   flight10x += flight10_xspeed
   flight10y += flight10_yspeed
except:
   pass
try:
```

```
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
```

```
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight5_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
   cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight5_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight6_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
   cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight6_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
   mydb.commit()
except:
   pass

try:
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
   cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight7_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
   cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight8_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight10_xspeed
```

```
    cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight11_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight12_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight13_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight14_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
```

```
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight8y > 700):
        del flight8y
        del flight8x
        del flight8_xspeed
        del flight8_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight9y < 450):
        del flight9y
        del flight9x
        del flight9_xspeed
        del flight9_yspeed
        # landing_screen()
except:
    pass
try:
    if(flight10y > 360):
```

```
            del flight10y
            del flight10x
            del flight10_xspeed
            del flight10_yspeed
            # landing_screen()

        except:
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass

def flight15_details():


    try:
        radar_frame2.destroy()
        details_frame1.destroy()
    except:
        pass
    try:
        radar_frame1.destroy()
    except:
        pass

    global details_frame
    global radar_frame
    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT,command=exit_function)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)
```

```
    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
    img_label.place(x=200,y=13)
    to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
    to_label.place(x=280,y=5)



#=============================================================================================================
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#=============================================================================================================
===

    radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
    radar_frame.place(x=450,y=0)

    canvas = Canvas(radar_frame,height=900,width=1100)
    canvas.pack()

    try:
       cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
       data = cur.fetchall()
       flight1x = data[0][0]
       flight1y = data[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
       data2 = cur.fetchall()
       flight2x = data2[0][0]
       flight2y = data2[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
       data3 = cur.fetchall()
       flight3x = data3[0][0]
       flight3y = data3[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
       data4 = cur.fetchall()
       flight4x = data4[0][0]
       flight4y = data4[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
       data5 = cur.fetchall()
       flight5x = data5[0][0]
       flight5y = data5[0][1]
    except:
       pass
    try:
       cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
       data6 = cur.fetchall()
```

```
    flight6x = data6[0][0]
    flight6y = data6[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data7 = cur.fetchall()
    flight7x = data7[0][0]
    flight7y = data7[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data8 = cur.fetchall()
    flight8x = data8[0][0]
    flight8y = data8[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
    data9 = cur.fetchall()
    flight9x = data9[0][0]
    flight9y = data9[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
    data10 = cur.fetchall()
    flight10x = data10[0][0]
    flight10y = data10[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
    data11 = cur.fetchall()
    flight11x = data11[0][0]
    flight11y = data11[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
    data12 = cur.fetchall()
    flight12x = data12[0][0]
    flight12y = data12[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
    data13 = cur.fetchall()
    flight13x = data13[0][0]
    flight13y = data13[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
    data14 = cur.fetchall()
    flight14x = data14[0][0]
    flight14y = data14[0][1]
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data15 = cur.fetchall()
    flight15x = data15[0][0]
    flight15y = data15[0][1]
except:
    pass
canvas.create_image(550,450,image=radar_img)
flight1_xspeed = -20
flight1_yspeed = -20
flight2_xspeed = 20
```

```
flight2_yspeed = 20
flight3_xspeed = 30
flight3_yspeed = 0
flight4_xspeed = -20
flight4_yspeed = 0
flight5_xspeed = 0
flight5_yspeed = -20
flight6_xspeed = 20
flight6_yspeed = 20
flight7_xspeed = 20
flight7_yspeed = -20
flight8_xspeed = -20
flight8_yspeed = 20
flight9_xspeed = 0
flight9_yspeed = -20
flight10_xspeed = -10
flight10_yspeed = 20
flight11_xspeed = -15
flight11_yspeed = 20
flight12_xspeed = 20
flight12_yspeed = -20
flight13_xspeed = 10
flight13_yspeed = -20
flight14_xspeed = 0
flight14_yspeed = 20
flight15_xspeed = 20
flight15_yspeed = 0

while True:
    try:
        cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
        data15 = cur.fetchall()
        flight15x = data15[0][0]
        flight15y = data15[0][1]
    except:
        pass
    def key(event):
        pass
        # print("pressed", repr(event.char))

    def callback(event):
        print("clicked at", event.x, event.y)
        try:
            diff = abs(int(flight1x)-int(event.x))
            if( diff < 10):
                b()
        except:
            pass

    try:
        cur.execute("select height from heights where flight_no='6E64'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane1 = canvas.create_image(flight1x, flight1y, image=blue_airplane_nw)
        else:
            plane1 = canvas.create_image(flight1x, flight1y, image=white_airplane_nw)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='2'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
            plane2 = canvas.create_image(flight2x, flight2y, image=blue_airplane_se)
        else:
            plane2 = canvas.create_image(flight2x, flight2y, image=white_airplane_se)
    except:
        pass
    try:
        cur.execute("select height from heights where flight_no='3'")
        data=cur.fetchall()
        if(data[0][0] > 15000):
```

```
      plane3 = canvas.create_image(flight3x, flight3y, image=blue_airplane_e)
    else:
      plane3 = canvas.create_image(flight3x, flight3y, image=white_airplane_e)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='4'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane4 = canvas.create_image(flight4x, flight4y, image=blue_airplane_w)
    else:
      plane4 = canvas.create_image(flight4x, flight4y, image=white_airplane_w)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='5'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane5 = canvas.create_image(flight5x, flight5y, image=blue_airplane_n)
    else:
      plane5 = canvas.create_image(flight5x, flight5y, image=white_airplane_n)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='6'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane6 = canvas.create_image(flight6x, flight6y, image=blue_airplane_se)
    else:
      plane6 = canvas.create_image(flight6x, flight6y, image=white_airplane_se)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='7'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane7 = canvas.create_image(flight7x, flight7y, image=blue_airplane_ne)
    else:
      plane7 = canvas.create_image(flight7x, flight7y, image=white_airplane_ne)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='8'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane8 = canvas.create_image(flight8x, flight8y, image=blue_airplane_sw)
    else:
      plane8 = canvas.create_image(flight8x, flight8y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='9'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane9 = canvas.create_image(flight9x, flight9y, image=blue_airplane_n)
    else:
      plane9 = canvas.create_image(flight9x, flight9y, image=white_airplane_n)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='10'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
      plane10 = canvas.create_image(flight10x, flight10y, image=blue_airplane_sw)
    else:
      plane10 = canvas.create_image(flight10x, flight10y, image=white_airplane_sw)
  except:
    pass
  try:
    cur.execute("select height from heights where flight_no='11'")
    data=cur.fetchall()
```

```
    if(data[0][0] > 15000):
        plane11 = canvas.create_image(flight11x, flight11y, image=blue_airplane_sw)
    else:
        plane11 = canvas.create_image(flight11x, flight11y, image=white_airplane_sw)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='12'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane12 = canvas.create_image(flight12x, flight12y, image=blue_airplane_ne)
    else:
        plane12 = canvas.create_image(flight12x, flight12y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='13'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane13 = canvas.create_image(flight13x, flight13y, image=blue_airplane_ne)
    else:
        plane13 = canvas.create_image(flight13x, flight13y, image=white_airplane_ne)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='14'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane14 = canvas.create_image(flight14x, flight14y, image=blue_airplane_s)
    else:
        plane14 = canvas.create_image(flight14x, flight14y, image=white_airplane_s)
except:
    pass
try:
    cur.execute("select height from heights where flight_no='15'")
    data=cur.fetchall()
    if(data[0][0] > 15000):
        plane15 = canvas.create_image(flight15x, flight15y, image=blue_airplane_e)
    else:
        plane15 = canvas.create_image(flight15x, flight15y, image=white_airplane_e)
except:
    pass

canvas.bind("<Key>", key)
canvas.bind("<Button-1>", callback)
canvas.update()
time.sleep(2)
try:
    canvas.delete(plane1)
except:
    pass
try:
    canvas.delete(plane2)
except:
    pass
try:
    canvas.delete(plane3)
except:
    pass
try:
    canvas.delete(plane4)
except:
    pass
try:
    canvas.delete(plane5)
except:
    pass
try:
    canvas.delete(plane6)
except:
    pass
```

```
try:
    canvas.delete(plane7)
except:
    pass
try:
    canvas.delete(plane8)
except:
    pass
try:
    canvas.delete(plane9)
except:
    pass
try:
    canvas.delete(plane10)
except:
    pass
try:
    canvas.delete(plane11)
except:
    pass
try:
    canvas.delete(plane12)
except:
    pass
try:
    canvas.delete(plane13)
except:
    pass
try:
    canvas.delete(plane14)
except:
    pass
try:
    canvas.delete(plane15)
except:
    pass
canvas.update()
time.sleep(2)
canvas.update()

try:
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
except:
    pass
try:
    flight2x += flight2_xspeed
    flight2y += flight2_yspeed
except:
    pass
try:
    flight3x += flight3_xspeed
    flight3y += flight3_yspeed
except:
    pass
try:
    flight4x += flight4_xspeed
    flight4y += flight4_yspeed
except:
    pass
try:
    flight5x += flight5_xspeed
    flight5y += flight5_yspeed
except:
    pass
try:
    flight6x += flight6_xspeed
    flight6y += flight6_yspeed
except:
    pass
try:
```

```
    flight7x += flight7_xspeed
    flight7y += flight7_yspeed
except:
    pass
try:
    flight8x += flight8_xspeed
    flight8y += flight8_yspeed
except:
    pass
try:
    flight9x += flight9_xspeed
    flight9y += flight9_yspeed
except:
    pass
try:
    flight10x += flight10_xspeed
    flight10y += flight10_yspeed
except:
    pass
try:
    flight11x += flight11_xspeed
    flight11y += flight11_yspeed
except:
    pass
try:
    flight12x += flight12_xspeed
    flight12y += flight12_yspeed
except:
    pass
try:
    flight13x += flight13_xspeed
    flight13y += flight13_yspeed
except:
    pass
try:
    flight14x += flight14_xspeed
    flight14y += flight14_yspeed
except:
    pass
try:
    flight15x += flight15_xspeed
    flight15y += flight15_yspeed
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=1".format(x1,flight1y))
    cur.execute("select x,y from coordinates where flight_no='6E64' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight1_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6E64' and frame_no=0".format(x2,flight1y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=1".format(x1,flight2y))
    cur.execute("select x,y from coordinates where flight_no='2' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight2_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='2' and frame_no=0".format(x2,flight2y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=1")
```

```
    data = cur.fetchall()
    x1 = data[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=1".format(x1,flight3y))
    cur.execute("select x,y from coordinates where flight_no='3' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight3_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='3' and frame_no=0".format(x2,flight3y))

    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=1")
except:
    pass

try:
    data = cur.fetchall()
    x1 = data[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=1".format(x1,flight4y))
    cur.execute("select x,y from coordinates where flight_no='4' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight4_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='4' and frame_no=0".format(x2,flight4y))
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=1".format(x1,flight5y))
    cur.execute("select x,y from coordinates where flight_no='5' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight5_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='5' and frame_no=0".format(x2,flight5y))
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=1".format(x1,flight6y))
    cur.execute("select x,y from coordinates where flight_no='6' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight6_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='6' and frame_no=0".format(x2,flight6y))
    mydb.commit()
except:
    pass

try:
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=1".format(x1,flight7y))
    cur.execute("select x,y from coordinates where flight_no='7' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight7_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='7' and frame_no=0".format(x2,flight7y))
    mydb.commit()
except:
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=1".format(x1,flight8y))
    cur.execute("select x,y from coordinates where flight_no='8' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight8_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='8' and frame_no=0".format(x2,flight8y))
    mydb.commit()
except:
    pass
```

```
try:
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=1".format(x1,flight9y))
   cur.execute("select x,y from coordinates where flight_no='9' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight9_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='9' and frame_no=0".format(x2,flight9y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=1".format(x1,flight10y))
   cur.execute("select x,y from coordinates where flight_no='10' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight10_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='10' and frame_no=0".format(x2,flight10y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=1".format(x1,flight11y))
   cur.execute("select x,y from coordinates where flight_no='11' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight11_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='11' and frame_no=0".format(x2,flight11y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=1".format(x1,flight12y))
   cur.execute("select x,y from coordinates where flight_no='12' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight12_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='12' and frame_no=0".format(x2,flight12y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='13' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight13_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=1".format(x1,flight13y))
   cur.execute("select x,y from coordinates where flight_no='13' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight13_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='13' and frame_no=0".format(x2,flight13y))
   mydb.commit()
except:
   pass
try:
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=1")
   data = cur.fetchall()
   x1 = data[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=1".format(x1,flight14y))
   cur.execute("select x,y from coordinates where flight_no='14' and frame_no=0")
   data1 = cur.fetchall()
   x2 = data1[0][0] + flight14_xspeed
   cur.execute("update coordinates set x={},y={} where flight_no='14' and frame_no=0".format(x2,flight14y))
   mydb.commit()
except:
```

```
    pass
try:
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=1")
    data = cur.fetchall()
    x1 = data[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=1".format(x1,flight15y))
    cur.execute("select x,y from coordinates where flight_no='15' and frame_no=0")
    data1 = cur.fetchall()
    x2 = data1[0][0] + flight15_xspeed
    cur.execute("update coordinates set x={},y={} where flight_no='15' and frame_no=0".format(x2,flight15y))
    mydb.commit()
except:
    pass

try:
    if (flight1y < 200):
        del flight1y
        del flight1x
        del flight1_xspeed
        del flight1_yspeed
except:
    pass
try:
    if(flight2y > 422):
        del flight2y
        del flight2x
        del flight2_xspeed
        del flight2_yspeed
except:
    pass
try:
    if(flight3x > 850):
        del flight3y
        del flight3x
        del flight3_xspeed
        del flight3_yspeed
except:
    pass
try:
    if(flight4x < 170):
        del flight4y
        del flight4x
        del flight4_xspeed
        del flight4_yspeed
except:
    pass
try:
    if(flight5y < 50):
        del flight5y
        del flight5x
        del flight5_xspeed
        del flight5_yspeed
except:
    pass
try:
    if(flight6y > 700):
        del flight6y
        del flight6x
        del flight6_xspeed
        del flight6_yspeed
except:
    pass
try:
    if(flight7y < 450):
        del flight7y
        del flight7x
        del flight7_xspeed
        del flight7_yspeed
        # landing_screen()
except:
    pass
```

```
        try:
            if(flight8y > 700):
                del flight8y
                del flight8x
                del flight8_xspeed
                del flight8_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight9y < 450):
                del flight9y
                del flight9x
                del flight9_xspeed
                del flight9_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight10y > 360):
                del flight10y
                del flight10x
                del flight10_xspeed
                del flight10_yspeed
                # landing_screen()

        except:
            pass
        try:
            if(flight11y > 690):
                del flight11y
                del flight11x
                del flight11_xspeed
                del flight11_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight12y < 160):
                del flight12y
                del flight12x
                del flight12_xspeed
                del flight12_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight13y < 100):
                del flight13y
                del flight13x
                del flight13_xspeed
                del flight13_yspeed
                # landing_screen()
        except:
            pass
        try:
            if(flight14y > 750):
                del flight14y
                del flight14x
                del flight14_xspeed
                del flight14_yspeed
                # landing_screen()
        except:
            pass
    a()
    root.mainloop()



def info1():
    def new_flight():
```

```
    root2.destroy()
    root3 = Tk()

    flight_name_lbl = Label(root3,text="flight name:")
    flight_name_lbl.grid(row=0,column=0)

    flight_name_entry = Entry(root3)
    flight_name_entry.grid(row=0,column=1)

    takeoff_time_lbl = Label(root3,text="Take off Time:")
    takeoff_time_lbl.grid(row=1,column=0)

    takeoff_time_entry = Entry(root3)
    takeoff_time_entry.grid(row=1,column=1)

    flight_num_lbl = Label(root3,text="flight number:")
    flight_num_lbl.grid(row=2,column=0)

    flight_num_entry = Entry(root3)
    flight_num_entry.grid(row=2,column=1)

    parking_no_lbl = Label(root3,text="parking number:")
    parking_no_lbl.grid(row=3,column=0)

    parking_no_entry = Entry(root3)
    parking_no_entry.grid(row=3,column=1)

    from_lbl = Label(root3,text="From :")
    from_lbl.grid(row=4,column=0)

    from_entry = Entry(root3)
    from_entry.grid(row=4,column=1)

    to_lbl = Label(root3,text="To:")
    to_lbl.grid(row=5,column=0)

    to_entry = Entry(root3)
    to_entry.grid(row=5,column=1)

    capacity_lbl = Label(root3,text="Capacity:")
    capacity_lbl.grid(row=6,column=0)

    capacity_entry = Entry(root3)
    capacity_entry.grid(row=6,column=1)

    no_of_crew_lbl = Label(root3,text="no of crew members:")
    no_of_crew_lbl.grid(row=7,column=0)

    no_of_crew_entry = Entry(root3)
    no_of_crew_entry.grid(row=7,column=1)

    airplane_type_lbl = Label(root3,text="Airplane Type:")
    airplane_type_lbl.grid(row=8,column=0)

    airplane_type_entry = Entry(root3)
    airplane_type_entry.grid(row=8,column=1)

    save_button = Button(root3,text="submit")
    save_button.grid(row=9,column=0)

    root3.mainloop()
def depature():
    pass
def arrival():
    pass
def cancel():
    pass
root1.destroy()
root2 = Tk()
newflight_button = Button(root2,text="New Flight",font=("Arial",40),command=new_flight)
newflight_button.pack()
```

```
    depature_button = Button(root2,text="Departure",font=("Arial",40),command=depature)
    depature_button.pack()

    arrival_button = Button(root2,text="Arrival",font=("Arial",40),command=arrival)
    arrival_button.pack()

    cancel_button = Button(root2,text="CANCELATION",font=("Arial",40),command=cancel)
    cancel_button.pack()
    root2.mainloop()

root1 = Tk()
atc_button = Button(root1,text="ATC ",font=("Arial",40),command=home)
atc_button.pack()

info_button = Button(root1,text="INFO",font=("Arial",40),command=info1)
info_button.pack()
root1.mainloop()
```

landing_final

```
from tkinter import *
import time
from datetime import datetime
import mysql.connector as con
from PIL import Image,ImageTk

mydb = con.connect(host="localhost",user="root",password="Mouse@2010",database="atc")
cur = mydb.cursor()

def landing_screen():
    root = Toplevel()
    root.geometry("1550x900")
    root.attributes('-fullscreen',True)

    radar_img = PhotoImage(file=r"IMAGES\blue_radar.png")
    airplane_n = PhotoImage(file=r"IMAGES\airplane_n.png")
    airplane_ne = PhotoImage(file=r"IMAGES\airplane_ne.png")
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    airplane_se = PhotoImage(file=r"IMAGES\airplane_se.png")
    airplane_s = PhotoImage(file=r"IMAGES\airplane_s.png")
    airplane_sw = PhotoImage(file=r"IMAGES\airplane_sw.png")
    airplane_w = PhotoImage(file=r"IMAGES\airplane_w.png")
    airplane_nw = PhotoImage(file=r"IMAGES\airplane_nw.png")
    exit_icon = PhotoImage(file=r"ICONS\EXIT.png")
    hanger_airplane = PhotoImage(file=r"IMAGES\hanger_airplane.png")
    background_screen = PhotoImage(file=r"IMAGES\background.png")
    runway_img = PhotoImage(file=r"IMAGES\runway_img.png")

    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
```

```
from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
from_label.place(x=40,y=5)
airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
img_label.place(x=200,y=13)
to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
to_label.place(x=280,y=5)

#=============================================================================================================
#=============================================================================================================

radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
radar_frame.place(x=450,y=0)

canvas = Canvas(radar_frame,height=900,width=1100)
canvas.pack()
canvas.create_image(550,450,image=background_screen)
canvas.create_image(550,450,image=runway_img)
cur.execute("select * from parking where sr_no=1")
parking1 = cur.fetchall()
cur.execute("select * from parking where sr_no=2")
parking2 = cur.fetchall()
cur.execute("select * from parking where sr_no=3")
parking3 = cur.fetchall()
cur.execute("select * from parking where sr_no=4")
parking4 = cur.fetchall()
cur.execute("select * from parking where sr_no=5")
parking5 = cur.fetchall()

if(parking1[0][1] == 1):
    canvas.create_image(500,300,image=hanger_airplane)
if(parking2[0][1] == 1):
    canvas.create_image(600,300,image=hanger_airplane)
if(parking3[0][1] == 1):
    canvas.create_image(685,300,image=hanger_airplane)
if(parking4[0][1] == 1):
    canvas.create_image(600,475,image=hanger_airplane)
if(parking5[0][1] == 1):
    canvas.create_image(685,475,image=hanger_airplane)

flight1_xspeed = 20
flight1_yspeed = 20
flight1x = 50
flight1y = 50

while True:
    # now = datetime.now()
    # current_time = now.time()
    # current_time = str(current_time)
    # current_time = current_time.split(".")
    # current_time = current_time[0]
    # print(current_time)
    time.sleep(1)
    plane1 = canvas.create_image(flight1x,flight1y,image=airplane_se)
    canvas.update()
    time.sleep(2)
    canvas.delete(plane1)
    canvas.update()
    time.sleep(2)
    flight1x += flight1_xspeed
    flight1y += flight1_yspeed
    print(flight1y)
    if(flight1y > 290):
        break

if(parking1[0][1] == 0):
    canvas.create_image(500,300,image=hanger_airplane)
    cur.execute("update parking set status=1 where sr_no=1")
elif(parking2[0][1] == 0):
    canvas.create_image(600,300,image=hanger_airplane)
    cur.execute("update parking set status=1 where sr_no=2")
```

```
    elif(parking3[0][1] == 0):
        canvas.create_image(685,300,image=hanger_airplane)
        cur.execute("update parking set status=1 where sr_no=3")
    elif(parking4[0][1] == 0):
        canvas.create_image(600,475,image=hanger_airplane)
        cur.execute("update parking set status=1 where sr_no=4")
    elif(parking5[0][1] == 0):
        canvas.create_image(685,475,image=hanger_airplane)
        cur.execute("update parking set status=1 where sr_no=5")
    mydb.commit(
    canvas.update()
    time.sleep(5)
    root.destroy()
    root.mainloop()
```

takeoff_final

```
from tkinter import *
import time
from datetime import datetime
import mysql.connector as con
from PIL import Image,ImageTk

mydb = con.connect(host="localhost",user="root",password="Mouse@2010",database="atc")
cur = mydb.cursor()

def takeoff_screen():
    root = Toplevel()
    root.geometry("1550x900")
    root.attributes('-fullscreen',True)

    radar_img = PhotoImage(file=r"IMAGES\blue_radar.png")
    airplane_n = PhotoImage(file=r"IMAGES\airplane_n.png")
    airplane_ne = PhotoImage(file=r"IMAGES\airplane_ne.png")
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
    airplane_se = PhotoImage(file=r"IMAGES\airplane_se.png")
    airplane_s = PhotoImage(file=r"IMAGES\airplane_s.png")
    airplane_sw = PhotoImage(file=r"IMAGES\airplane_sw.png")
    airplane_w = PhotoImage(file=r"IMAGES\airplane_w.png")
    airplane_nw = PhotoImage(file=r"IMAGES\airplane_nw.png")
    exit_icon = PhotoImage(file=r"ICONS\EXIT.png")
    hanger_airplane = PhotoImage(file=r"IMAGES\hanger_airplane.png")
    background_screen = PhotoImage(file=r"IMAGES\background.png")
    runway_img = PhotoImage(file=r"IMAGES\runway_img.png")

    details_frame = Frame(root,height=900,width=450,relief=SUNKEN,background="light green")
    details_frame.place(x=0,y=0)

    top_frame = Frame(details_frame,height=75,width=450,relief=SUNKEN,background="#262626")
    top_frame.place(x=0,y=0)
    exit1 = Button(top_frame,image=exit_icon,bg="#262626",relief=FLAT)
    exit1.place(x=375,y=10)
    flight_no_label = Label(top_frame,bg="#262626",fg="yellow",text="AHM1005",font=("Arial",25))
    flight_no_label.place(x=10,y=10)
    airline_name_label = Label(top_frame,bg="#262626",fg="yellow",text="INDIGO",font=("Arial",10))
    airline_name_label.place(x=10,y=45)

    photo_frame = Frame(details_frame,height=300,width=450,relief=SUNKEN)
    photo_frame.place(x=0,y=75)
    image = Image.open(r"AIRPLANE PHOTOS\british airways.jpg")
    img = image.resize((450,300))
    airplane_img = ImageTk.PhotoImage(img)
    img_label = Label(photo_frame,image=airplane_img)
    img_label.pack()

    from_to_frame = Frame(details_frame,bg="#B8B8B8",height=175,width=450,relief=SUNKEN)
    from_to_frame.place(x=0,y=375)
    from_label = Label(from_to_frame,text="AHM",bg="#B8B8B8",font=("Arial",40,"bold"))
    from_label.place(x=40,y=5)
    airplane_e = PhotoImage(file=r"IMAGES\airplane_e.png")
```

```
img_label = Label(from_to_frame,bg="#B8B8B8",image=airplane_e)
img_label.place(x=200,y=13)
to_label = Label(from_to_frame,bg="#B8B8B8",text="CMB",font=("Arial",40,"bold"))
to_label.place(x=280,y=5)

radar_frame = Frame(root,height=900,width=1100,relief=SUNKEN,background="light blue")
radar_frame.place(x=450,y=0)

canvas = Canvas(radar_frame,height=900,width=1100)
canvas.pack()
canvas.create_image(550,450,image=background_screen)
canvas.create_image(550,450,image=runway_img)
cur.execute("select * from parking where sr_no=1")
parking1 = cur.fetchall()
cur.execute("select * from parking where sr_no=2")
parking2 = cur.fetchall()
cur.execute("select * from parking where sr_no=3")
parking3 = cur.fetchall()
cur.execute("select * from parking where sr_no=4")
parking4 = cur.fetchall()
cur.execute("select * from parking where sr_no=5")
parking5 = cur.fetchall()

if(parking1[0][1] == 1):
   h1 = canvas.create_image(500,300,image=hanger_airplane)
if(parking2[0][1] == 1):
   h2 = canvas.create_image(600,300,image=hanger_airplane)
if(parking3[0][1] == 1):
   h3 = canvas.create_image(685,300,image=hanger_airplane)
if(parking4[0][1] == 1):
   h4 = canvas.create_image(600,475,image=hanger_airplane)
if(parking5[0][1] == 1):
   h5 = canvas.create_image(685,475,image=hanger_airplane)

time.sleep(2)
flight1_xspeed = -20
flight1_yspeed = -20
flight1x = 310
flight1y = 310
time.sleep(2)
if(parking1[0][1] == 1):
   canvas.delete(h1)
   cur.execute("update parking set status=0 where sr_no=1")
elif(parking2[0][1] == 1):
   canvas.delete(h2)
   cur.execute("update parking set status=0 where sr_no=2")
elif(parking3[0][1] == 1):
   canvas.delete(h3)
   cur.execute("update parking set status=0 where sr_no=3")
elif(parking4[0][1] == 1):
   canvas.delete(h4)
   cur.execute("update parking set status=0 where sr_no=4")
elif(parking5[0][1] == 1):
   canvas.delete(h5)
   cur.execute("update parking set status=0 where sr_no=5")
mydb.commit()

while True:
   time.sleep(1)
   plane1 = canvas.create_image(flight1x,flight1y,image=airplane_nw)
   canvas.update()
   time.sleep(2)
   canvas.delete(plane1)
   canvas.update()
   time.sleep(2)
   flight1x += flight1_xspeed
   flight1y += flight1_yspeed
   print(flight1y)
   if(flight1y < 50):
      cur.execute("insert into coordinates values('15',0,0,1)")
      cur.execute("insert into coordinates values('15',0,0,0)")
```

```
        root.destroy()
        break
canvas.update()
root.mainloop()
```