Python Practical  
ASAP AIRWAYS

BY- Aman Verma, Shreyansh Shandilya , Parth Kumar Jha

**CODING:**

from tkinter import \*

from tkinter.ttk import \*

import mysql.connector as sql

from tkinter import scrolledtext

from PIL import ImageTk, Image

import random

from datetime import \*

import tkinter.messagebox

mydb = sql.connect(host="localhost", user="root", passwd="98711", database='project')

mycursor = mydb.cursor()

window = Tk()

window.geometry('500x400')

window.title('ASAP Airways')

window.iconbitmap('C:/Users/pc/PycharmProjects/ASAP AIRWAYS/icon.ico')

# Photos

image = Image.open('C:/Users/pc/PycharmProjects/ASAP AIRWAYS/background header.png')

new\_image = image.resize((500, 100))

image\_ = ImageTk.PhotoImage(new\_image)

image2 = Image.open('C:/Users/pc/PycharmProjects/ASAP AIRWAYS/background.jpg')

new\_image2 = image2.resize((500, 300))

image2\_ = ImageTk.PhotoImage(new\_image2)

image3 = Image.open('C:/Users/pc/PycharmProjects/ASAP AIRWAYS/background.jpg')

new\_image3 = image3.resize((500, 400))

image3\_ = ImageTk.PhotoImage(new\_image3)

#Styling

s=Style()

s.configure('.',font=('Times New Roman',12))

s.configure('my.TButton',font=('Helvetica',12),width=8)

def nav(x):

    if x == 'home':

        home.tkraise()

    if x == 'booking':

        booking.tkraise()

    if x == 'search':

        details.tkraise()

    if x == 'search1':

        search1.tkraise()

    if x == 'search2':

        search2.tkraise()

    if x == 'cancel':

        cancel.tkraise()

def clicked():

    nam = s1\_e.get()

    no = s1\_e2.get()

    T.config(state=NORMAL)  # Text is now editable

    T.delete(0.0, 'end')  # Delete the previous search

    mycursor.execute('select \* from flight\_details')

    t = False

    for i in mycursor:

        if nam == i[1] or no == str(i[0]):

            a = 'Id No.             :' + str(i[0]) + '\n' \

                'Name               :' + str(i[1]) + '\n' \

                'Age                :' + str(i[2]) + '\n' \

                'Gender             :' + str(i[3]) + '\n' \

                'Flight No          :' + str(i[4]) + '\n' \

                'Seat No            :' + str(i[5]) + '\n' \

                'Destination        :' + str(i[6]) + '\n' \

                'Date of Departure  :' + str(i[7]) + '\n' \

                'Time of Departure  :' + str(i[8])

            T.insert(INSERT, a)

            t = True

        else:

            pass

    if t == False:

        s1\_l2.configure(text="Nothing Found")

    elif t == True:

        s1\_l2.configure(text="Found")

    T.config(state=DISABLED)  # Text is now not editable

    clear()

def clicked1():

    name = s2\_e.get()

    T1.config(state=NORMAL)  # Text is now editable

    T1.delete(0.0, 'end')  # Delete the previous search

    mycursor.execute('select \* from flight\_details')

    t = False

    for i in mycursor:

        if name == i[4]:

            T1.insert(INSERT, i)

            T1.insert(INSERT, '\n')

            t = True

        else:

            pass

    if t == False:

        s2\_l2.configure(text="Nothing Found")

    elif t == True:

        s2\_l2.configure(text="Found")

    T1.config(state=DISABLED)  # Text is now not editable

    clear()

def cancellation():

    a = str(c\_e.get())

    b = str(c\_e1.get())

    mycursor.execute('select \* from flight\_details')

    t = False

    for i in mycursor:

        if a == i[1] and b == str(i[4]):

            t = True

        else:

            pass

    if t == False:

        c\_l2.configure(text='Booking Not Found')

    elif t == True:

        mycursor.execute('delete from flight\_details where Name=%s and Flight\_No=%s', (a, b))

        mydb.commit()

        c\_l2.configure(text='Your Flight Has Been Cancelled')

def book():

    no = random.randint(100000, 999999)

    name = b\_name.get()

    age = b\_age.get()

    gender = b.get()

    gen = ''

    if gender == 0:

        gen = 'M'

    elif gender == 1:

        gen = 'F'

    flight = b\_flight\_number.get()

    seat = b\_seat.get()

    dest = b\_destination.get()

    dod = b\_date\_of\_departure.get()

    tod = b\_time\_of\_departure.get()

    if name != '' and age != '' and flight != '' and seat != '' and dest != '' and str(dod) != '' and tod != '':

        mycursor.execute("insert into flight\_details(SNO,Name,Age,Gender,Flight\_No"

                         ",Seat,Destination,Date\_of\_Departure,Time\_of\_Departure) "

                         "values(%s,%s,%s,%s,%s,%s,%s,%s,%s)",(no,name,age,gen,flight,seat,dest,str(dod),tod))

        mydb.commit()

        message = tkinter.messagebox.showinfo(title='Seat Booked', message="Your Id No. is :"+str(no)+'\n Name :'+name)

    else:

        message1 = tkinter.messagebox.showerror(title='Error', message="Don't leave Any Fields Empty")

    clear()

def clear():

    # Clear Booking Page

    b\_name.delete(first=0, last=END)

    b\_age.set('')

    b.set(2)

    b\_destination.set('')

    b\_flight\_number.set('')

    b\_date\_of\_departure.set('')

    b\_time\_of\_departure.set('')

    b\_seat.set('')

    # Clear Search By Name Page

    s1\_e.delete(first=0, last=END)

    s1\_e2.delete(first=0, last=END)

    # Clear Search By Flight Page

    s2\_e.delete(first=0, last=END)

    # Clear Cancellation Page

    c\_e.delete(first=0,last=END)

    c\_e1.delete(first=0,last=END)

home = Frame(window, height=400, width=500)

home.place(x=0, y=0)

booking = Frame(window, height=400, width=500)

booking.place(x=0, y=0)

details = Frame(window, height=400, width=500)

details.place(x=0, y=0)

search1 = Frame(window, height=400, width=500)

search1.place(x=0, y=0)

search2 = Frame(window, height=400, width=600)

search2.place(x=0, y=0)

cancel = Frame(window, height=400, width=500)

cancel.place(x=0, y=0)

# Home Page

h\_canvas = Canvas(home, bg="Blue", height=100, width=500, highlightthickness=0)

h\_canvas.place(x=0, y=0)

h\_canvas.create\_image(0, 0, image=image\_, anchor=NW)

h\_canvas2 = Canvas(home, bg="Brown", height=300, width=500, highlightthickness=0)

h\_canvas2.place(x=0, y=100)

h\_canvas2.create\_image(0, 0, image=image2\_, anchor=NW)

h\_btn = Button(h\_canvas2, text="Booking", command=lambda: nav('booking'))

h\_btn.place(x=250, y=50, width=300, height=50, anchor="center")

h\_btn2 = Button(h\_canvas2, text="Flight Details", command=lambda: nav('search'))

h\_btn2.place(x=250, y=100, width=300, height=50, anchor="center")

h\_btn3 = Button(h\_canvas2, text="Fight Cancellation", command=lambda: nav('cancel'))

h\_btn3.place(x=250, y=150, width=300, height=50, anchor="center")

## Booking page

b\_canvas = Canvas(booking, bg="Blue", height=400, width=500)

b\_canvas.place(x=0, y=0)

b\_canvas.create\_image(0, 0, image=image3\_, anchor=NW)

back\_btn = Button(booking, text="Back", command=lambda: nav('home'),style='my.TButton')

back\_btn.place(x=10, y=350)

#   Labels

Heading = Label(booking, text="BOOKING", font=('Times New Roman', 30), anchor="center")  # font=('font',size)

name = Label(booking, text='Enter your Name: ')

age = Label(booking, text='Enter your Age: ')

gender = Label(booking, text='Gender: ')

destination = Label(booking, text='Select Your Destination: ')

date\_of\_departure = Label(booking, text='Select Date of departure: ')

flight\_number = Label(booking, text='Select Your Flight: ')

seat = Label(booking, text='Select Your Seat: ')

time\_of\_departure = Label(booking, text='Select Time of departure: ')

#   Label :Place

Heading.place(x=250, y=40, height=50, width=200, anchor='center')

name.place(x=29, y=80)

age.place(x=29, y=110)

gender.place(x=29, y=140)

destination.place(x=29, y=170)

date\_of\_departure.place(x=29, y=200)

flight\_number.place(x=29, y=230)

seat.place(x=29, y=260)

time\_of\_departure.place(x=29, y=290)

#   Entry

b\_name = Entry(booking)

b\_age = Spinbox(booking, from\_=0, to=100, state='readonly')

b = IntVar()

b.set(2)

b\_gender1 = Radiobutton(booking, text='M', value=0, variable=b)

b\_gender2 = Radiobutton(booking, text='F', value=1, variable=b)

flight = ["LT449", "TE417", "WB105", "CT415", "EV272", "JF221", "DA144", "BX113", "PA105", "UC281"]

flight\_ = []

for i in range(random.randint(4, 8)):

    x = random.choice(flight)

    if x in flight\_:

        pass

    else:

        flight\_.append(x)

b\_flight\_number = Combobox(booking, state='readonly')

b\_flight\_number['values'] = flight\_

seat\_ = []

for i in range(random.randint(4, 20)):

    seat = str(random.randint(1, 9)) + random.choice("ABCD")

    if seat in seat\_:

        pass

    else:

        seat\_.append(seat)

b\_seat = Combobox(booking, state='readonly')

seat\_.sort()

b\_seat['values'] = seat\_

b\_destination = Combobox(booking, state='readonly')

b\_destination['values'] = ["Tokyo", "Seoul", "Mexico City", "New York City", "Mumbai", "Jakarta", "Sao Paulo", "Osaka",

                           "Shanghai",

                           "Hong Kong", "Los Angeles", "Kolkata", "Moscow", "Cairo", "London", "Beijing", "Tokyo",

                           "Seoul",

                           "Mexico City", "New York City", "Mumbai", "Jakarta", "Sao Paulo", "Osaka", "Shanghai",

                           "Hong Kong",

                           "Los Angeles", "Kolkata", "Moscow", "Cairo", "London", "Beijing", "Karachi", "Pune",

                           "Bangalore",

                           "Ahmedabad", "Jaipur", "Lucknow", "Bhopal", "Patna", "Vadodara", "Amritsar", "Chandigarh",

                           "Ranchi",

                           "Dehradun", "J&K", "Belgium", "Cape Town"]

b\_date\_of\_departure = Combobox(booking, state='readonly')

b\_date\_of\_departure['values'] = (date.today(),

                                 date.today() + timedelta(days=1),

                                 date.today() + timedelta(days=2),

                                 date.today() + timedelta(days=3),

                                 date.today() + timedelta(days=4),

                                 date.today() + timedelta(days=5),

                                 date.today() + timedelta(days=6),

                                 date.today() + timedelta(days=7))

time\_ = []

for i in range(random.randint(4, 8)):

    time1 = random.randint(0, 23)

    time2 = random.choice(['30', '15', '45', '00'])

    timen = timedelta(hours=int(time1), minutes=int(time2), seconds=00)

    if timen in time\_:

        pass

    else:

        time\_.append(timen)

time\_.sort()

b\_time\_of\_departure = Combobox(booking, state='readonly')

b\_time\_of\_departure['values'] = time\_

book\_btn = Button(booking, text="Book", command=book)

#   Entry: Place

b\_name.place(x=190, y=80, width=144)

b\_age.place(x=190, y=110)

b\_gender1.place(x=190, y=140)

b\_gender2.place(x=250, y=140)

b\_destination.place(x=190, y=170)

b\_date\_of\_departure.place(x=190, y=200)

b\_flight\_number.place(x=190, y=230)

b\_seat.place(x=190, y=260)

b\_time\_of\_departure.place(x=190, y=290)

book\_btn.place(x=250, y=350, width=300, height=50, anchor="center")

# Details page

d\_canvas = Canvas(details, bg="Green", height=400, width=500)

d\_canvas.create\_image(0, 0, image=image3\_, anchor=NW)

Heading1 = Label(details, text="FLIGHT DETAILS", font=('Times New Roman', 30), anchor="center")  # font=('font',size)

d\_btn = Button(details, text="Back", command=lambda: nav('home'),style='my.TButton')

searchn\_btn = Button(details, text="Search By Name", command=lambda: nav("search1"))

searchf\_btn = Button(details, text="Search By Flight Number", command=lambda: nav("search2"))

d\_canvas.place(x=0, y=0)

Heading1.place(x=250, y=40, height=50, width=320, anchor='center')

d\_btn.place(x=10, y=350)

searchn\_btn.place(x=250, y=180, anchor='center', height=50, width=200)

searchf\_btn.place(x=250, y=250, anchor='center', height=50, width=200)

# search by name

s1 = Canvas(search1, bg="yellow", height=400, width=500)

s1.place(x=0, y=0)

s1.create\_image(0, 0, image=image3\_, anchor=NW)

s1\_heading = Label(s1, text="SEARCH BY NAME", font=('Times New Roman', 30), anchor="center")

s1\_heading.place(x=240, y=40, height=50, width=355, anchor='center')

x\_btn = Button(search1, text="Back", command=lambda: nav('search'),style='my.TButton')

x\_btn.place(x=10, y=350)

s1\_l = Label(search1, text="Enter Name")

s1\_l.place(x=130, y=100)

s1\_e = Entry(search1)

s1\_e.place(x=240, y=100)

s1\_l1 = Label(search1, text="Enter ID Number")

s1\_l1.place(x=130, y=128)

s1\_e2 = Entry(search1)

s1\_e2.place(x=240, y=128)

s1\_bt = Button(search1, text="Submit", command=clicked)

s1\_bt.place(x=130, y=160)

s1\_l2 = Label(search1, text="")

s1\_l2.place(x=280, y=190, anchor="center")

T = scrolledtext.ScrolledText(search1, height=5, width=40)

T.insert(INSERT, "")

T.place(x=100, y=205)

# search by flight no.

s2 = Canvas(search2, bg="orange", height=400, width=500)

s2.place(x=0, y=0)

s2.create\_image(0, 0, image=image3\_, anchor=NW)

s2\_heading = Label(s2, text="SEARCH BY FLIGHT NO.", font=('Times New Roman', 30), anchor="center")

s2\_heading.place(x=250, y=40, height=50, width=450, anchor='center')

y\_btn = Button(search2, text="Back", command=lambda: nav('search'),style='my.TButton')

y\_btn.place(x=10, y=350)

s2\_l = Label(search2, text="Enter Flight No.")

s2\_l.place(x=130, y=100)

s2\_e = Entry(search2)

s2\_e.place(x=240, y=100)

s2\_bt = Button(search2, text="Submit", command=clicked1)

s2\_bt.place(x=130, y=150)

s2\_l2 = Label(search2, text="")

s2\_l2.place(x=280, y=185, anchor="center")

T1 = scrolledtext.ScrolledText(search2, height=5, width=50)

T1.insert(INSERT, "")

T1.place(x=250, y=250, anchor='center')

# cancellation page

c\_canvas = Canvas(cancel, bg="red", height=400, width=500)

c\_canvas.place(x=0, y=0)

c\_canvas.create\_image(0, 0, image=image3\_, anchor=NW)

c\_heading = Label(c\_canvas, text="FLIGHT CANCELLATION", font=('Times New Roman', 30), anchor="center")

c\_heading.place(x=250, y=40, height=50, width=455, anchor='center')

c\_btn = Button(cancel, text="Back", command=lambda: nav('home'),style='my.TButton')

c\_btn.place(x=10, y=350)

c\_l = Label(cancel, text="Enter Name")

c\_l.place(x=130, y=100)

c\_l1 = Label(cancel, text="Enter Flight No.")

c\_l1.place(x=130, y=150)

c\_e = Entry(cancel)

c\_e.place(x=240, y=100)

c\_e1 = Entry(cancel)

c\_e1.place(x=240, y=150)

c\_bt = Button(cancel, text="Submit", command=cancellation)

c\_bt.place(x=130, y=200)

c\_l2 = Label(cancel, text="")

c\_l2.place(x=280, y=250, anchor="center")

home.tkraise()

window.mainloop()

**RANDOM DATA ENTERY CODE:**