DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA

EXTC DEPARTMENT SE- SEM IV

MINI PROJECT FOR THE SUBJECT : PYTHON

ACADEMIC YEAR : 2021-2022

SERIAL NUMBER	GROUP MEMBERS	ROLL NUMBERS
1	ABHISHEK MANIK WAGHMARE	01
2	RAVEENA RUPESH PITALE	27

TITLE : PHONE NUMBER TRACKER USING GUI

ACKNOWLEDGEMENT : Special thanks to Poonam Ma'am who conducted sessions on how to go about the project and also clearing all the doubts on time.

PURPOSE OF PHONE NUMBER TRACKER : The phone number tracker tracks an indiviual's phone number and provides us with some of the important details of an user. This tracker can check the entered phone number and tell us six different specifications. These specifications include :

1) COUNTRY
2) SIM OPERATOR
3) TIME ZONE
4) DATE & TIME
5) LONGITUDE
6) LATITUDE

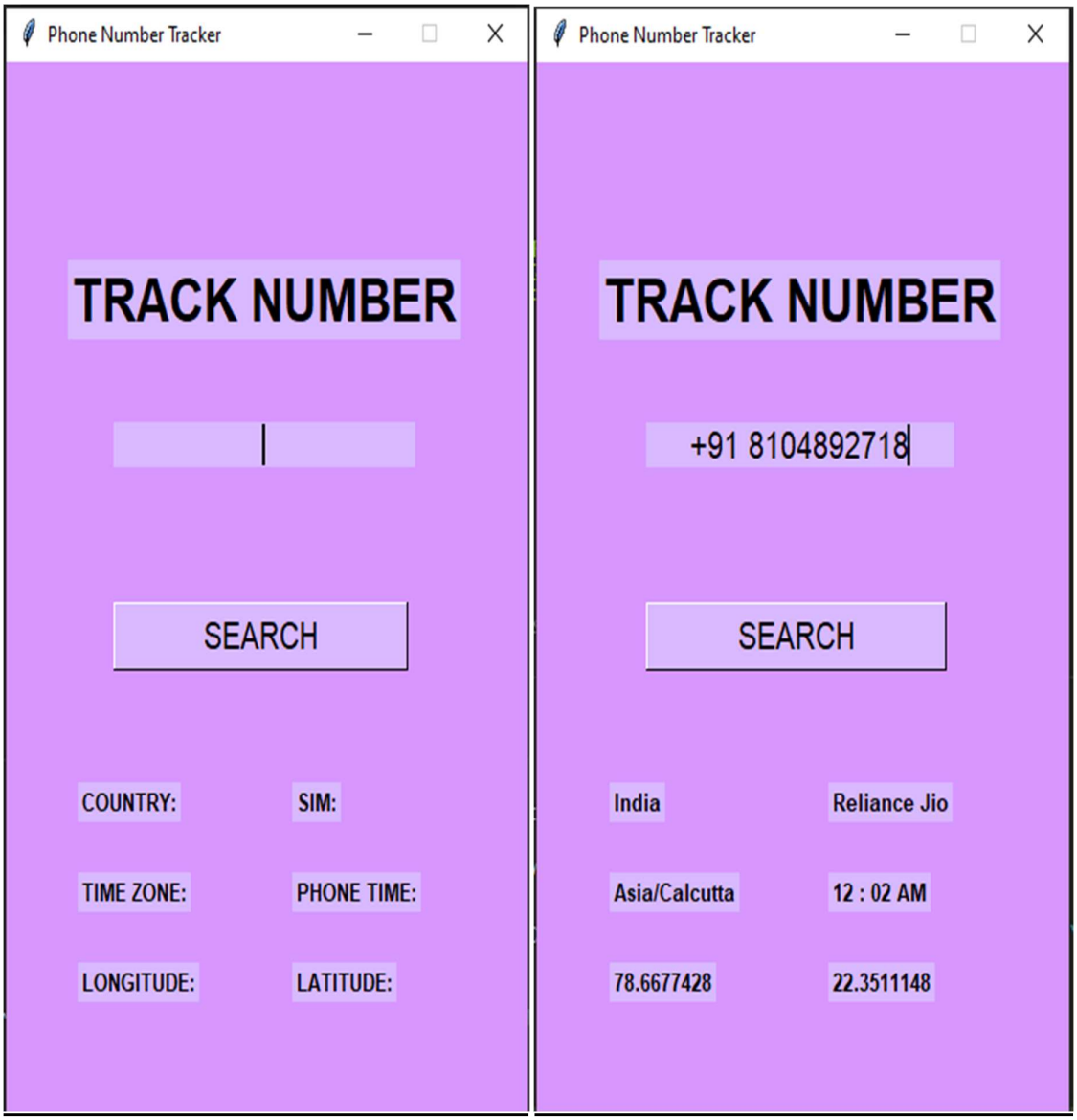
CODE :

```
import tkinter as Tk
from tkinter import *

import phonenumbers
from phonenumbers import carrier
from phonenumbers import geocoder
from phonenumbers import timezone
from timezonefinder import TimezoneFinder
from geopy.geocoders import Nominatim
from datetime import datetime
import pytz

root = Tk()
root.title("Phone Number Tracker")
root.geometry("365x584")
root.resizable(False,False)
root.configure(bg="#d896ff")
#background color code is #d896ff
#individual background color code is #d8b9ff

def track():
    enter_number=entry.get()
    number=phonenumbers.parse(enter_number)

    #country
    locate=geocoder.description_for_number(number,'en')
    country.config(text=locate)

    #sim operators like jio,airtel
    operator=carrier.name_for_number(number,'en')
    sim.config(text=operator)

    #timezone
    time=timezone.time_zones_for_number(number)
    zone.config(text=time)

    #longitude and latitude
    geolocator= Nominatim(user_agent="geoapiExercises")
    location=geolocator.geocode(locate)

    lng=location.longitude
    lat=location.latitude
```

```
    longitude.config(text=lng)
    latitude.config(text=lat)

    #time showing in phone
    obj=TimezoneFinder()
    result=obj.timezone_at(lng=location.longitude,lat=location.latitude)

    home=pytz.timezone(result)
    local_time=datetime.now(home)
    current_time=local_time.strftime("%I : %M %p")
    clock.config(text=current_time)


#logo
#logo = PhotoImage(file="logo image.png")
#Label(root,image=logo).place(x=240,y=70)

Heading=Label(root,text="TRACK
NUMBER",bg="#d8b9ff",font=("arial",25,"bold"),justify="center")
Heading.place(x=43,y=110)

#entry
#Entry_back= PhotoImage(file="search png.png")
#Label(root,image=Entry_back).place(x=20,y=190)

entry=StringVar()
enter_number=Entry(root,textvariable=entry,width=19,bd=0,background="#d8b9ff",
font=("arial",15),justify="center")
enter_number.place(x=75,y=200)

#button
#Search_image = PhotoImage(file="search.png")
search =
Button(text="SEARCH",width=18,bd=1,bg="#d8b9ff",font=("arial",15),justify="cen
ter",command=track)
search.place(x=75,y=300)

#bottom box
#Box = PhotoImage(file="bottom png.png")
#Label(root,image=Box).place(x=2,y=355)

country =
Label(root,text="COUNTRY:",bg="#d8b9ff",fg="black",font=("arial",10,"bold"))
country.place(x=50,y=400)

sim = Label(root,text="SIM:",bg="#d8b9ff",fg="black",font=("arial",10,"bold"))
sim.place(x=200,y=400)
```

```
zone = Label(root,text="TIME
ZONE:",bg="#d8b9ff",fg="black",font=("arial",10,"bold"))
zone.place(x=50,y=450)

clock = Label(root,text="PHONE
TIME:",bg="#d8b9ff",fg="black",font=("arial",10,"bold"))
clock.place(x=200,y=450)

longitude =
Label(root,text="LONGITUDE:",bg="#d8b9ff",fg="black",font=("arial",10,"bold"))
longitude.place(x=50,y=500)

latitude =
Label(root,text="LATITUDE:",bg="#d8b9ff",fg="black",font=("arial",10,"bold"))
latitude.place(x=200,y=500)

root.mainloop()
```

OUTPUT :



CONCLUSION :

1) We learnt what is GUI and how to use it
2) Installation of different libraries was necessary in order to collect the data and complete the execution.