DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA

EXTC DEPARTMENT SE- SEM IV

MINI PROJECT FOR THE SUBJECT : PYTHON

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TITLE : PHONE NUMBER TRACKER USING GUI

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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 :

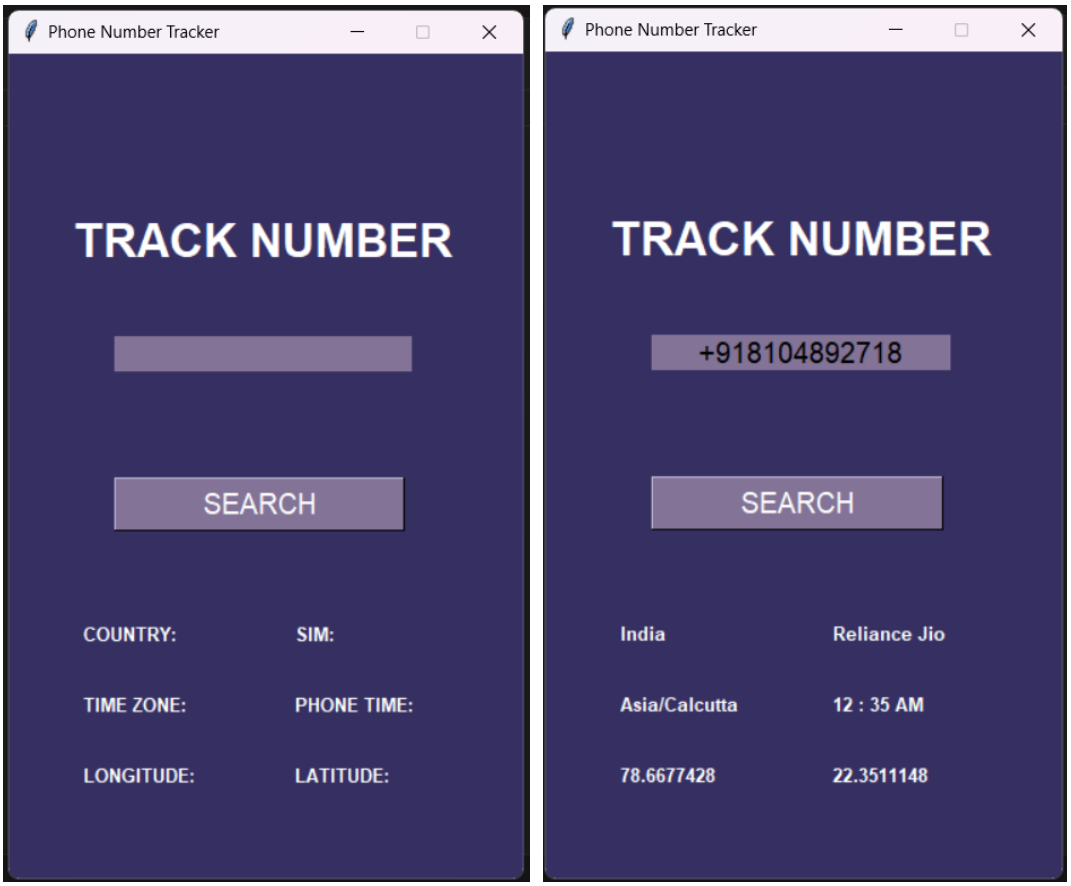
```
import tkinter as Tk
from tkinter import *

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="#363062")
# background color code is #d896ff
# individual background color code is #d8b9ff
# san francisco number +14155553890



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)

Heading = Label(root, text="TRACK NUMBER",fg="white", bg="#363062",
                font=("arial", 25, "bold"), justify="center")
Heading.place(x=43, y=110)

entry = StringVar()
enter_number = Entry(root, textvariable=entry, width=19, bd=0,
                     background="#827397", font=("arial", 15), justify="center")
enter_number.place(x=75, y=200)

search = Button(text="SEARCH", width=18, bd=1, fg="white", bg="#827397",
                font=("arial", 15), justify="center", command=track)
search.place(x=75, y=300)

country = Label(root, text="COUNTRY:", bg="#363062",
                fg="white", font=("arial", 10, "bold"))
country.place(x=50, y=400)

sim = Label(root, text="SIM:", bg="#363062",
            fg="white", font=("arial", 10, "bold"))
sim.place(x=200, y=400)
```

```
zone = Label(root, text="TIME ZONE:", bg="#363062",
             fg="white", font=("arial", 10, "bold"))
zone.place(x=50, y=450)

clock = Label(root, text="PHONE TIME:", bg="#363062",
              fg="white", font=("arial", 10, "bold"))
clock.place(x=200, y=450)

longitude = Label(root, text="LONGITUDE:", bg="#363062",
                  fg="white", font=("arial", 10, "bold"))
longitude.place(x=50, y=500)

latitude = Label(root, text="LATITUDE:", bg="#363062",
                 fg="white", 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.