

```

1 import phonenumbers
2 from phonenumbers import geocoder
3 from phonenumbers import carrier
4 from tkinter import *
5 import tkinter.font as tk
6 from opencage.geocoder import OpenCageGeocode
7 import tkintermapview
8
9 a=Tk()
10 a.title("Know About Phone Number")
11 a.geometry("1560x900")
12
13 def clear():
14     for text in a.winfo_children():
15         if isinstance(text,Text):
16             text.delete("1.0",END)
17
18 def msg():
19     ent1=s1.get("1.0",END)
20
21     try:
22         place=phonenumbers.parse(ent1,"CH")
23         country=geocoder.description_for_number(place,"en")
24
25         serve=phonenumbers.parse(ent1,"RO")
26         server=carrier.name_for_number(serve,"en")
27
28         key=OpenCageGeocode("c611007999be40a58c1d076e473c5460")
29         val=str(country)
30         loc=key.geocode(val)
31
32         lat=loc[0]['geometry']['lat']
33         lng=loc[0]['geometry']['lng']
34
35         lab=Label(a,height=22,width=71,bg="black")
36         lab.place(x=590,y=440)
37
38         map=tkintermapview.TkinterMapView(a,width=480,height=320)
39         map.set_position(lat,lng)
40         map.set_marker(lat,lng,text="Here is the Location")
41         map.set_zoom(10)
42         map.place(x=600,y=450)
43
44         if len(country)==0:
45             res.insert(END,"Location is: <Unknown>")
46         else:
47             res.insert(END,"Location is: "+country)
48
49         if len(server)==0:
50             res.insert(END,"\nServer is: <Unknown>")
51         else:
52             res.insert(END,"\nServer is: "+server)
53
54     except phonenumbers.phonenumberutil.NumberParseException:
55         res.insert(END,"Location is Invalid")
56         res.insert(END,"\nServer is not recognised")
57
58     except IndexError:
59         res.insert(END,"Location is Invalid")
60         res.insert(END,"\nServer is not recognised")

```

```
61
62 f1=tk.Font(size=16)
63 f2=tk.Font(size=14)
64
65 img1=PhotoImage(file="mobs.png")
66 pic1=Label(a,image=img1)
67 pic1.place(x=380,y=0)
68
69 img2=PhotoImage(file="person.png")
70 pic2=Label(a,image=img2)
71 pic2.place(x=1050,y=20)
72
73 t1=Label(a,text="The Format should be: +xyyyyyyyyyy",fg="black",font=f1)
74 t1.place(x=300,y=300)
75
76 t2=Label(a,text="x is Country Code and y is Phone Number",fg="maroon",font=f1)
77 t2.place(x=280,y=350)
78
79 l1=Label(a,text="Enter Any Phone Number",font=f2,fg="blue")
80 l1.place(x=50,y=410)
81 s1=Text(a,height=1,width=40,font=f2,fg="purple")
82 s1.place(x=50,y=450)
83
84 b=Button(a,text="Submit",font=f2,command=msg,bg="green")
85 b.place(x=220,y=490)
86
87 l2=Label(a,text="Basic Information",font=f2,fg="magenta")
88 l2.place(x=50,y=550)
89 res=Text(a,height=2,width=40,font=f2,fg="green")
90 res.place(x=50,y=580)
91
92 cl=Button(a,text="Reset Data",font=f1,command=clear,bg="red")
93 cl.place(x=200,y=650)
94
95 l3=Label(a,text="Locate on Map",font=f2,fg="green")
96 l3.place(x=600,y=400)
97
98 a.mainloop()
99
```