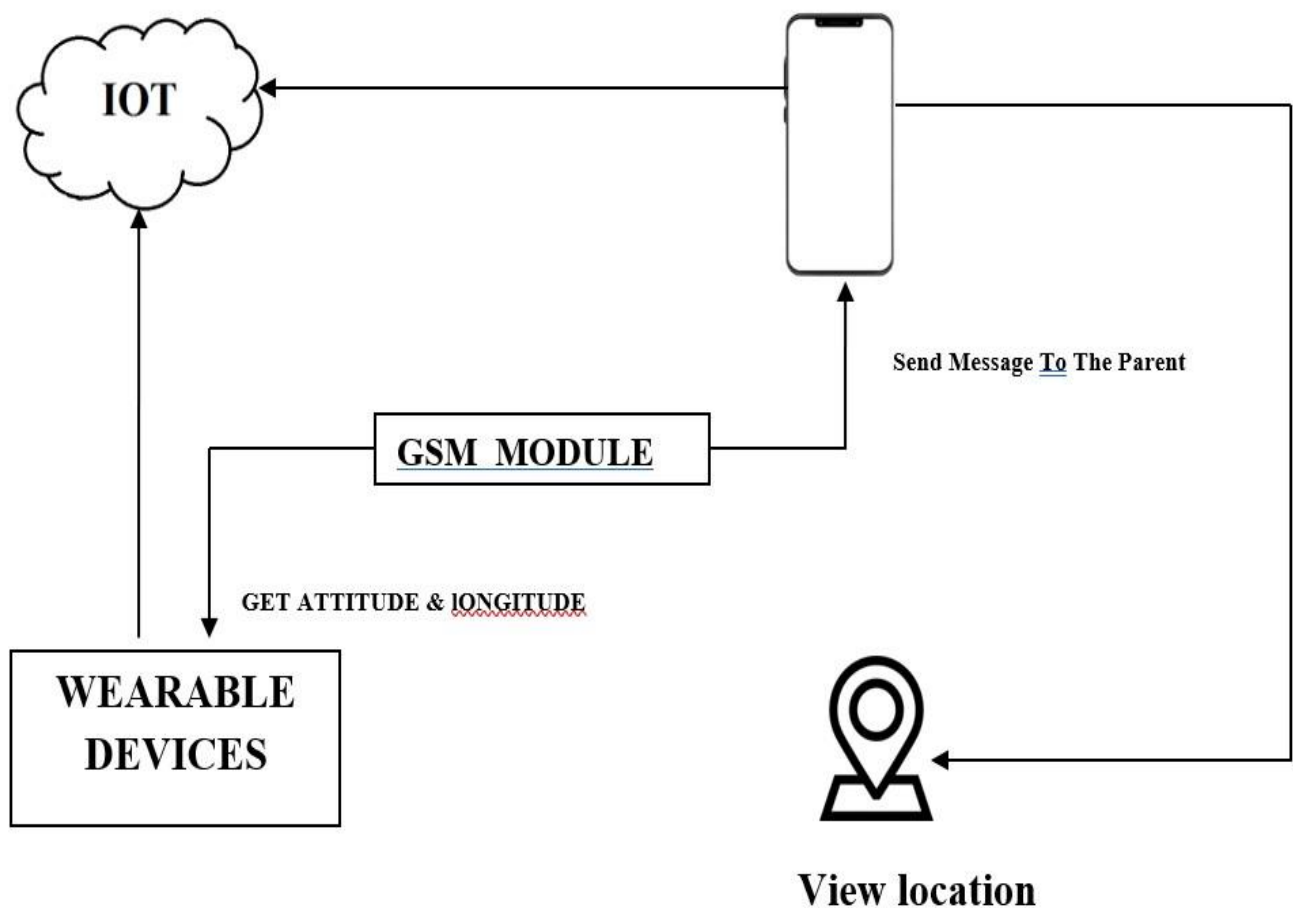


## PROJECT DEVELOPMENT PHASE

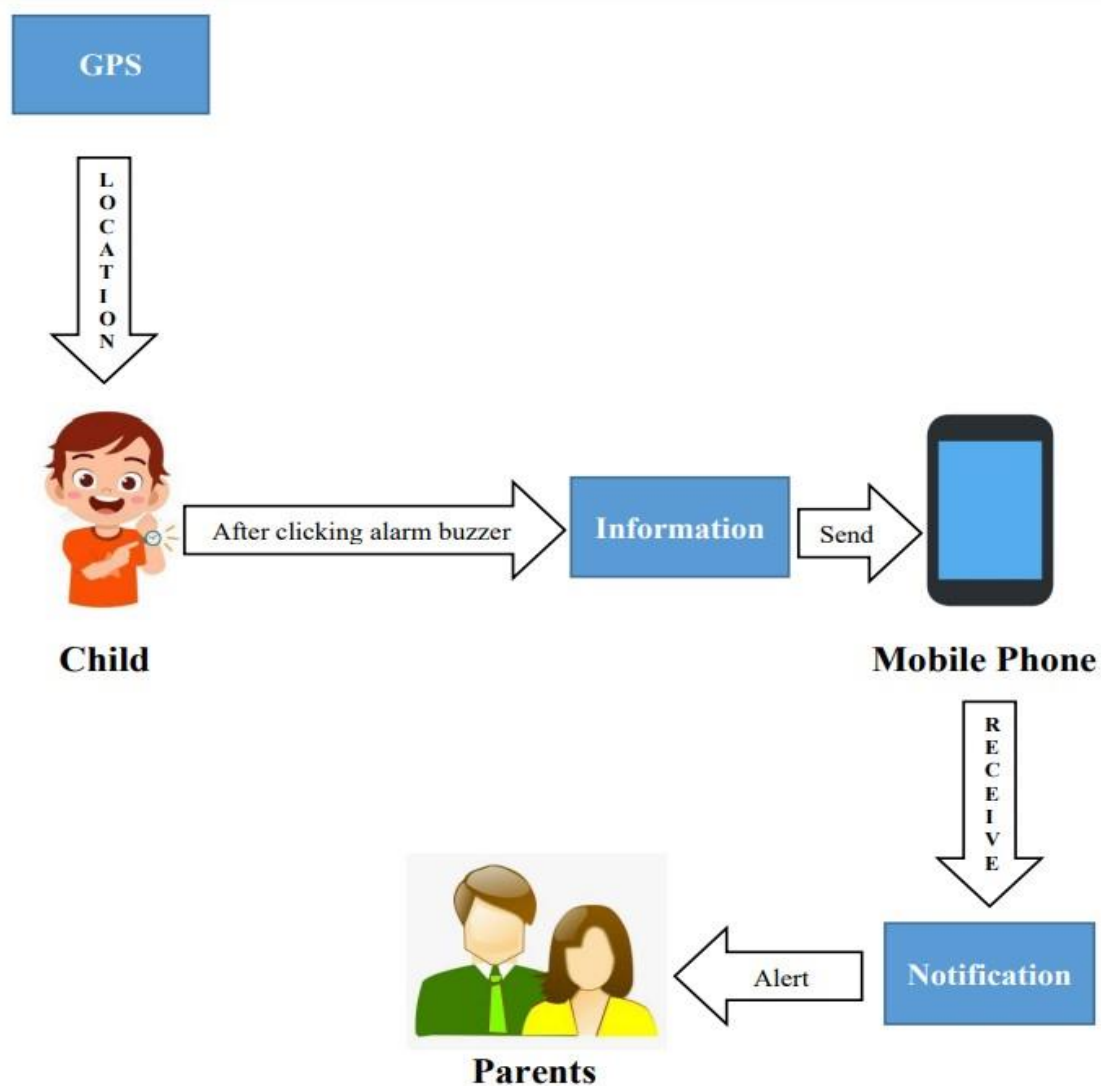
# SPRINT-4

<b>Team ID</b>	PNT2022TMID17405
<b>Project Name</b>	<b>Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification</b>

### Project Diagrammatic Structure & Code:



- Parent mobile and wearable devices are connected with the help of cloud.
- If child was lost , the parent can access the location of child through the mobile application with the help of GSM module.
- Then, we can view the location of child with the help of mobile application.
- 



## **CODE:**

### **#Source code for GPS Location:**

```
import phonenumbers import opencage import folium import
webbrowser number = "+916385571249" from phonenumbers
import geocoder # is a function par_number =
phonenumbers.parse(number) location =
geocoder.description_for_number(par_number, "en")
print(location)
# to see the service provider name from
phonenumbers import carrier service_par =
phonenumbers.parse(number)
S_provider = carrier.name_for_number(service_par, "en")
print(S_provider)
# opencage is for to view the location.
from opencage.geocoder import OpenCageGeocode
key = "7098ec840cb24aa9a5c38cce49fb3b81"
geocoder = OpenCageGeocode(key) query =
str(location) result = geocoder.geocode(query)
#print(result) lat =
result[0]['geometry']['lat'] lng =
result[0]['geometry']['lng']
print(lat, lng)
#### mymap = folium.Map(location=[lat, lng],
zoom_start=9) folium.Marker([lat, lng],
popup=location).add_to(mymap)
mymap.save("mylocation.html")
```

```
webbrowser.open_new_tab("mylocation.html")
```

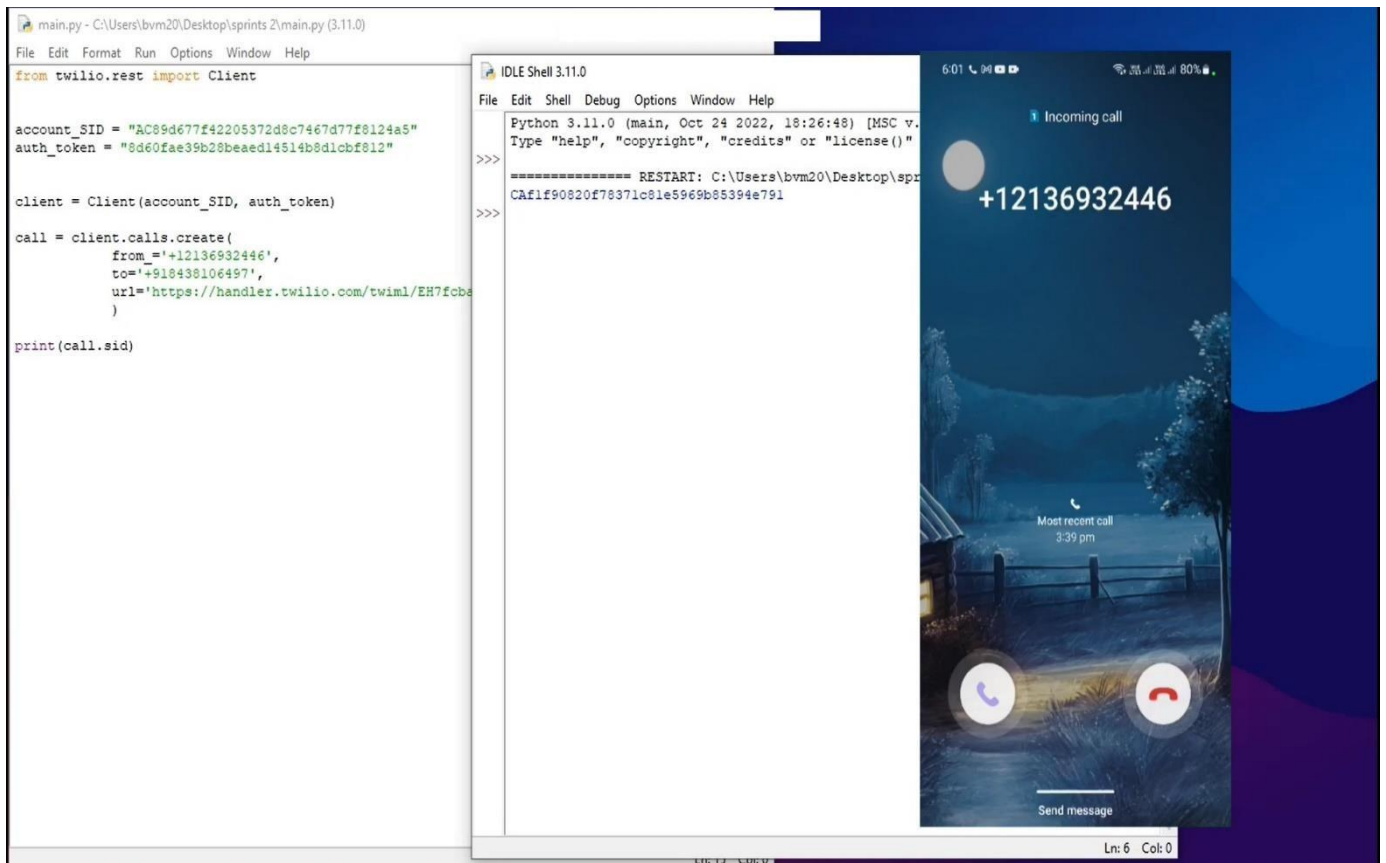
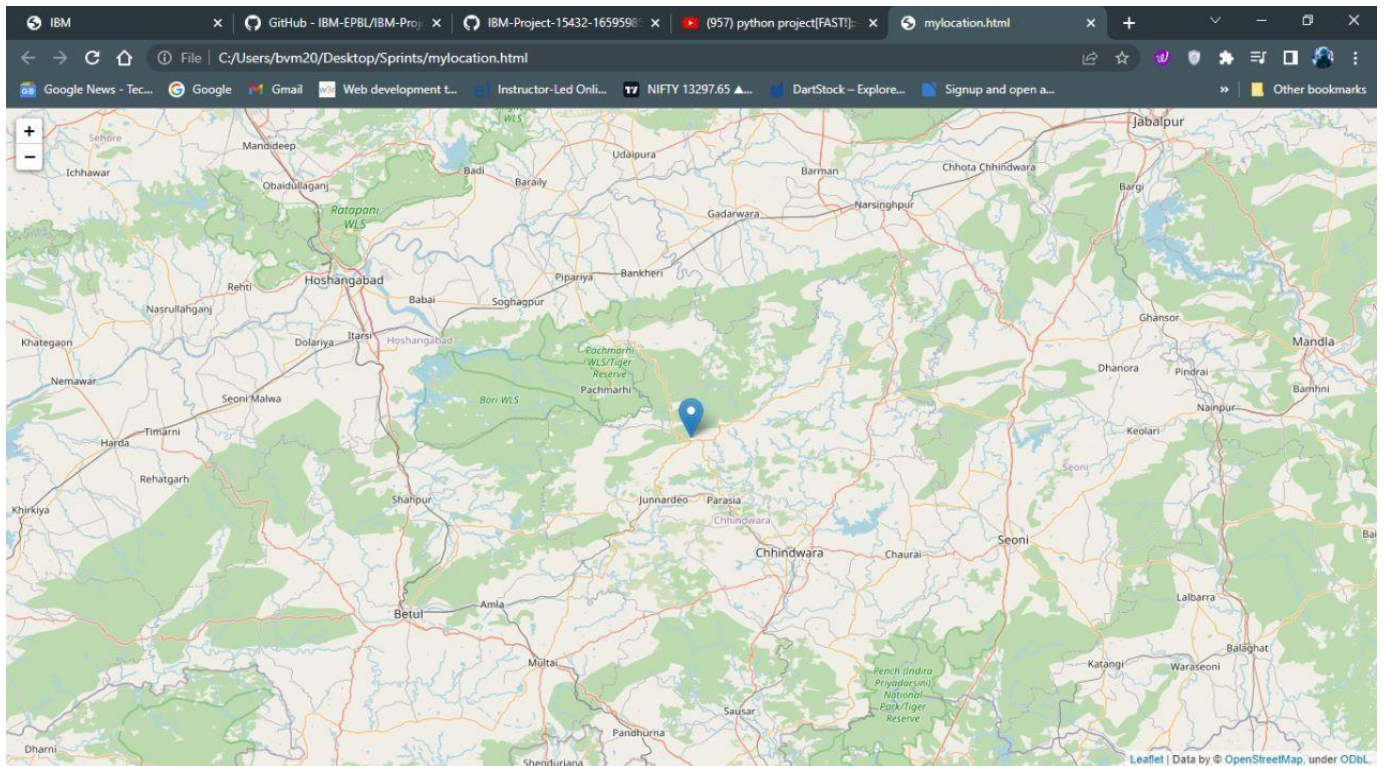
### **#Source code for Mobile Call:**

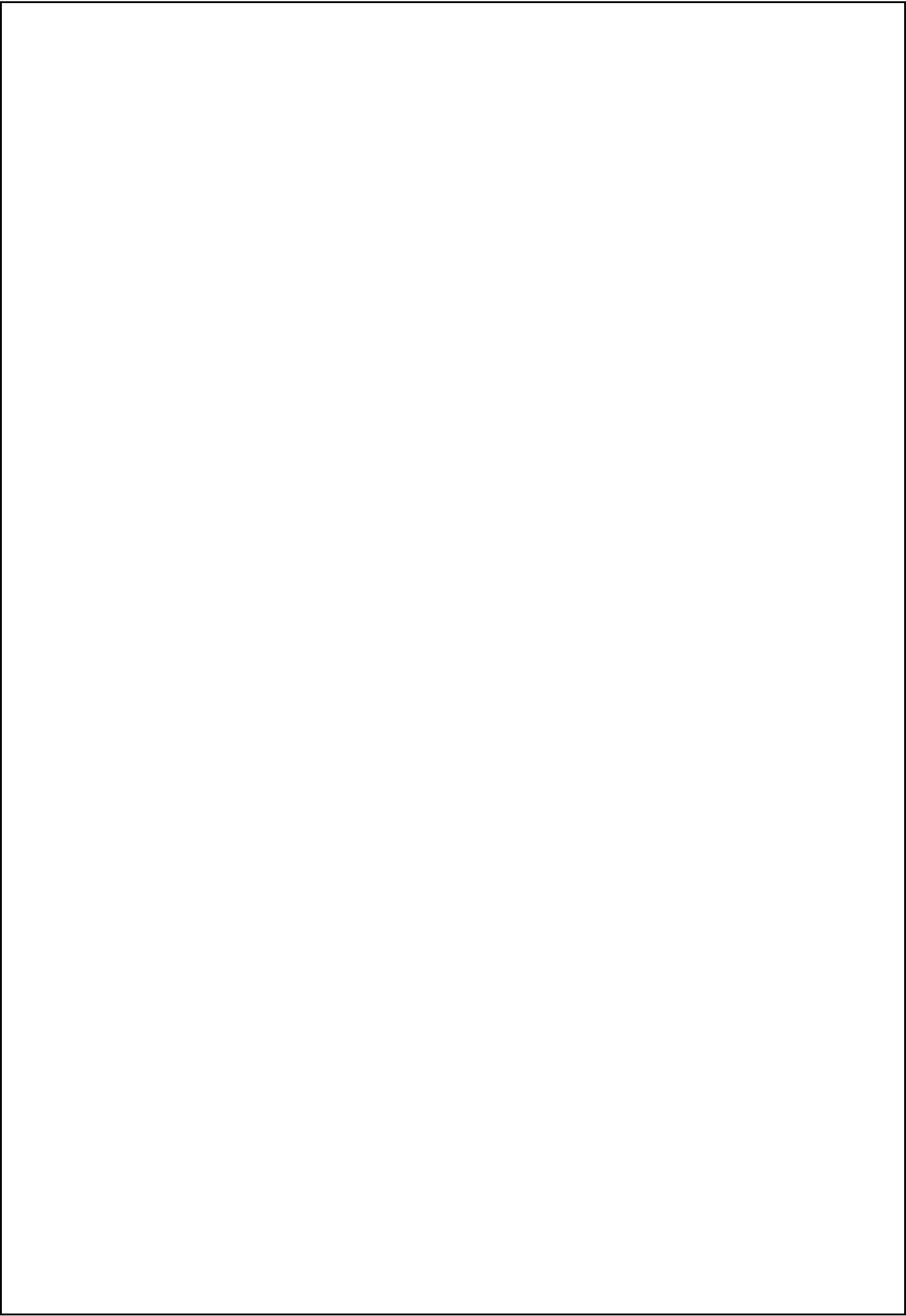
```
from twilio.rest import Client account_SID =  
"AC89d677f42205372d8c7467d77f8124a5" auth_token =  
"8d60fae39b28beaed14514b8d1cbf812" client =  
Client(account_SID, auth_token) call = client.calls.create(  
from_='+12136932446', to='+918438106497',  
  
url='https://handler.twilio.com/twiml/EH7fcb664228739cbc7d1e517  
93d42420'  
  
)  
print(call.sid)
```

### **#Source code for Notification (Alert Message):**

```
from twilio.rest import Client account_SID =  
"AC89d677f42205372d8c7467d77f8124a5" auth_token =  
"8d60fae39b28beaed14514b8d1cbf812" client =  
Client(account_SID, auth_token) message =  
client.messages.create( from_='+12136932446',  
to = '+918438106497', body='Hi from Twilio'  
  
)  
print(message.sid)
```

### **OUTPUT:**







6:01

VoLTE1 VoLTE2 80%

1 Incoming call



+12136932446



Most recent call  
3:39 pm

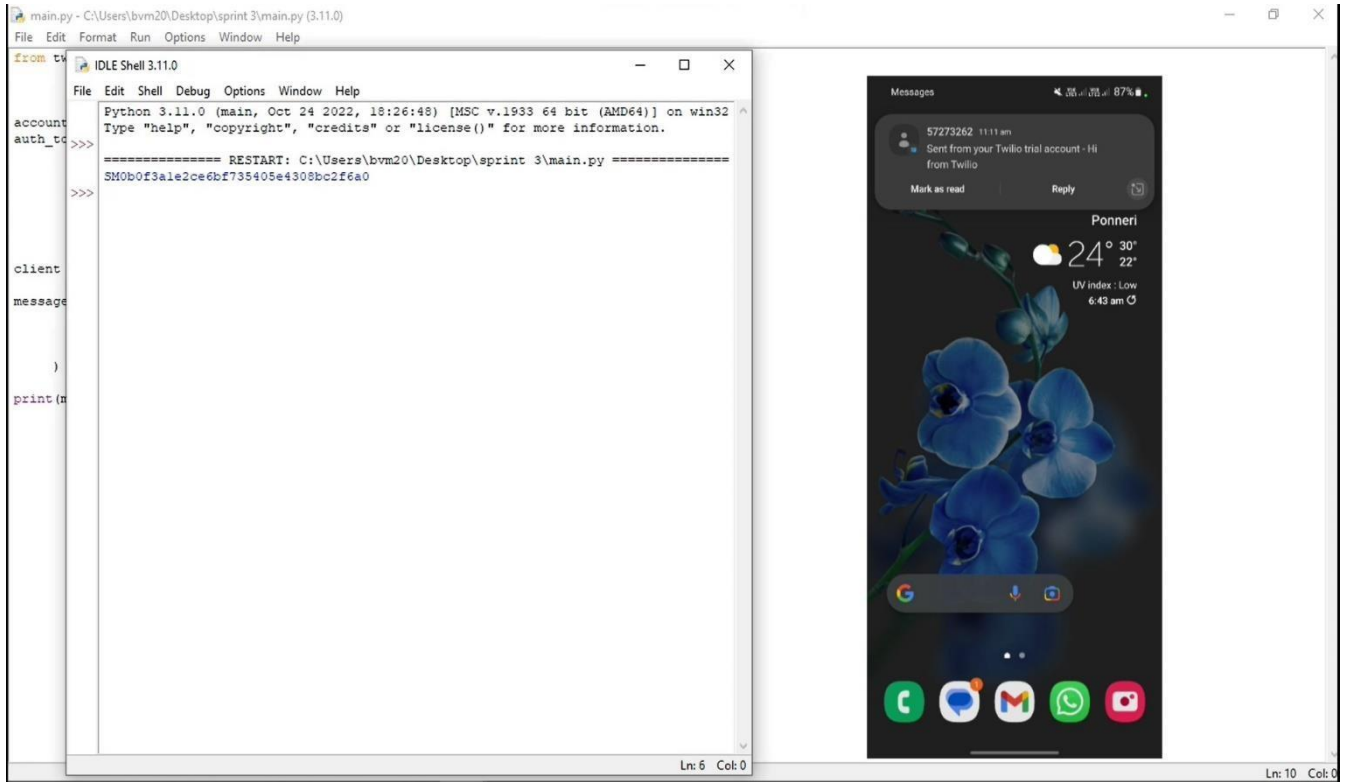


Send message

Alert Message from your Child







< 57273262



Save +9157273262?



Saving this contact also moves the conversation to Personal

Report spam

Add contact

11:07 am

Texting with 57273262 (SMS/MMS)



Sent from your Twilio trial account  
- Hi from Twilio



Sent from your Twilio trial account  
- Hi from Twilio

54 min • airtel



Text (airtel)

