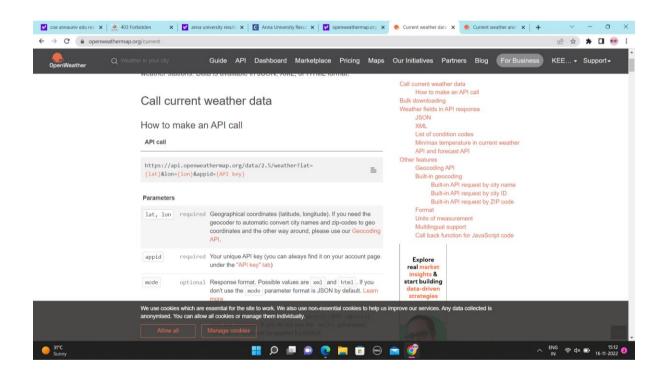
SPRINT - 1

Date	05 November 2022
Team ID	PNT2022TMID29675
Project Name	Signs with smart connectivity for
	Better Road Safety
Maximum Marks	4 Marks

ACCOUNT CREATION IN WEARHER API:



PYTHON CODE:

#IBM Watson IOT Platform

#pip install wiotp-sdk

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "afblzo",
    "typeId": "raspberrypi",
    "deviceId":"1234"
  },
  "auth": {
    "token": "123456789"
  }
}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
  m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temperature=random.randint(-20,125)
  vehiclescount=random.randint(0,100)
  workingarea_distance=random.randint(0,60)
```

```
accidentalarea distance=random.randint(1,25)
p="Your Prefered Speed"
q="Speed Limit is 30 km\hr"
r="Take another route"
s="As Your Wish"
t="Go Slow"
u="Moderate speed"
v="it's accidental area, Be Carefull"
w="Beyond the accidental area! Have a safe journey"
a={'Condition for Speed':p}
b={'Condition for Speed':q}
c={'Condition for Direction':r}
d={'Condition_for_Direction':s}
e={'Cond_for_Speed':t}
f={'Cond for Speed':u}
g={'Condition_for_Drive':v}
h={'Condition for Drive':w}
myData1={'Temperature':temperature}
myData2={'Vehiclescount':vehiclescount}
myData3={'WorkingArea_Distance':workingarea_distance}
myData4={'AccidentalArea Distance':accidentalarea distance}
```

```
client.publishEvent(eventId="status",msgFormat="json",data=myData1,qos=0,
onPublish=None)
  print("Published:%s",myData1)
  if temperature>=21:
    client.publishEvent(eventId="status",
msgFormat="json",data=a,qos=0,onPublish=None)
    print(a)
    print("\n")
  else:
    client.publishEvent(eventId="status",
msgFormat="json",data=b,qos=0,onPublish=None)
    print(b)
    print("\n")
client.publishEvent(eventId="status",msgFormat="json",data=myData2,qos=0,
onPublish=None)
  print("Published:%s",myData2)
  if vehiclescount>=53:
client.publishEvent(eventId="status",msgFormat="json",data=c,qos=0,onPublis
h=None)
    print(c)
    print("\n")
  else:
```

```
client.publishEvent(eventId="status",msgFormat="json",data=d,gos=0,onPubli
sh=None)
    print(d)
    print("\n")
client.publishEvent(eventId="status",msgFormat="json",data=myData3,qos=0,
onPublish=None)
  print("Published:%s",myData3)
  if workingarea distance>=4:
    client.publishEvent(eventId="status",
msgFormat="json",data=f,qos=0,onPublish=None)
    print(f)
    print("\n")
  else:
    client.publishEvent(eventId="status",
msgFormat="json",data=e,qos=0,onPublish=None)
    print(e)
    print("\n")
client.publishEvent(eventId="status",msgFormat="json",data=myData4,qos=0,
onPublish=None)
  print("Published:%s",myData4)
  if accidentalarea_distance>=3:
    client.publishEvent(eventId="status",
msgFormat="json",data=h,qos=0,onPublish=None)
    print(h)
```

```
print("\n")
else:
    client.publishEvent(eventId="status",
msgFormat="json",data=g,qos=0,onPublish=None)
    print(g)
    print("\n")

client.commandCallback=myCommandCallback
    time.sleep(10)
client.disconnect()
```

OUTPUT: