SPRINT 1[2]

Local/Software run

Team ID	PNT2022TMID52810
Project Name	Project - Signs with smart connectivity for Better road safety

Develop the Python code in which the test cases are provided like Weather, School timings

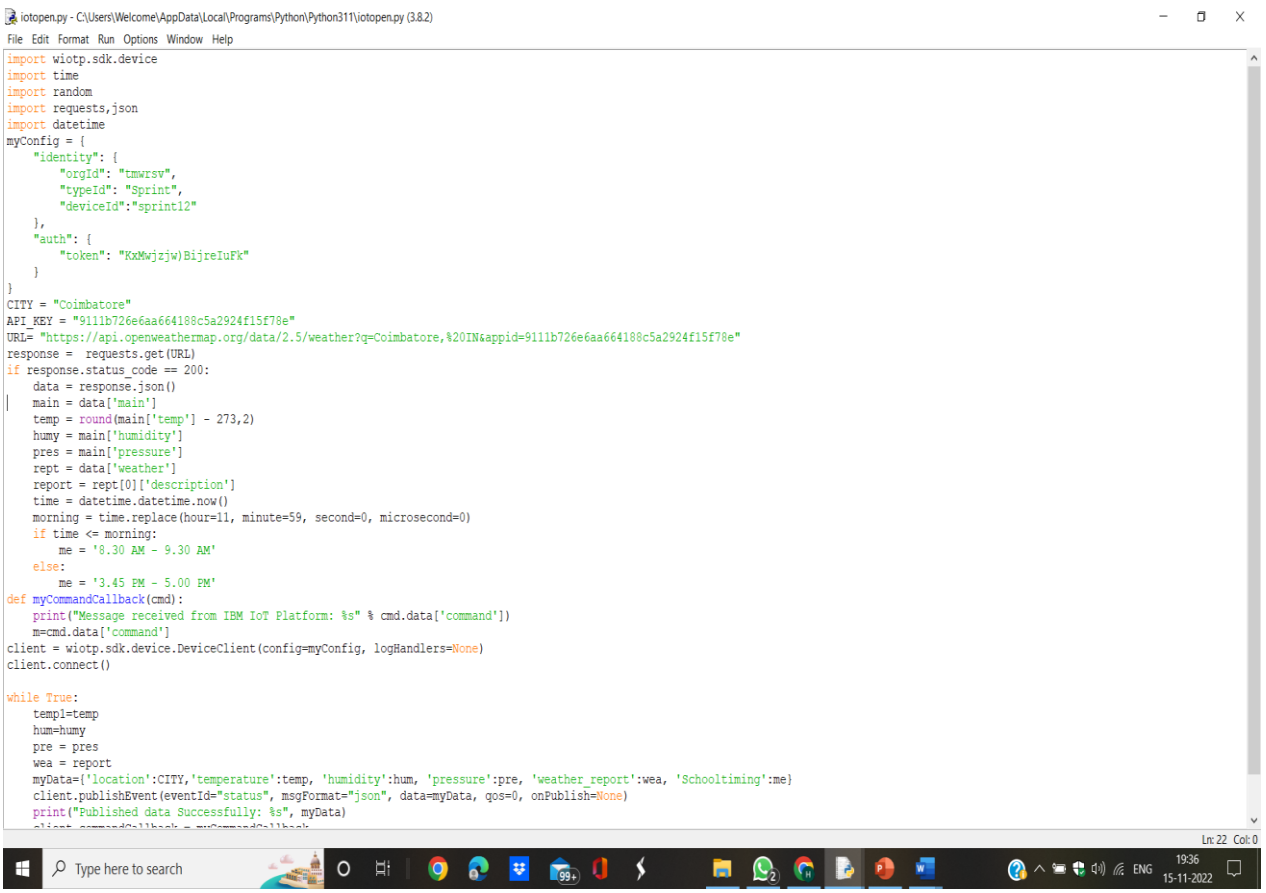
PYTHON SCRIPT:

```
import wiotp.sdk.device
import time
import random
import requests,json
import datetime
myConfig = {
   "identity": {
      "orgId": "tmwrsv",
      "typeId": "Sprint",
      "deviceId":"sprint12"
   },
   "auth": {
      "token": "KxMwjzjw)BijreIuFk"
   }
}
CITY = "Coimbatore"
API_KEY = "9111b726e6aa664188c5a2924f15f78e"
URL=
"https://api.openweathermap.org/data/2.5/weather?q=Coimbatore,%20IN&appid=9111b72
6e6aa664188c5a2924f15f78e"
response =  requests.get(URL)
if response.status_code == 200:
   data = response.json()
   main = data['main']
   temp = round(main['temp'] - 273,2)
   humy = main['humidity']
   pres = main['pressure']
   rept = data['weather']
   report = rept[0]['description']
   time = datetime.datetime.now()
   morning = time.replace(hour=11, minute=59, second=0, microsecond=0)
   if time <= morning:
      me = '8.30 AM - 9.30 AM'
   else:
      me = '3.45 PM - 5.00 PM'
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:
    temp1=temp
    hum=humy
    pre = pres
    wea = report
    myData={'location':CITY,'temperature':temp, 'humidity':hum, 'pressure':pre,
'weather_report':wea, 'Schooltiming':me}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
client.disconnect()
```

PYTHON IDE:



PYTHON IDE OUTPUT: