SPRINT 2

Dump the server/software to cloud

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

Dump the code from Sprint 1 to cloud so it can be accessed from anywhere

PYTHON SCRIPT:

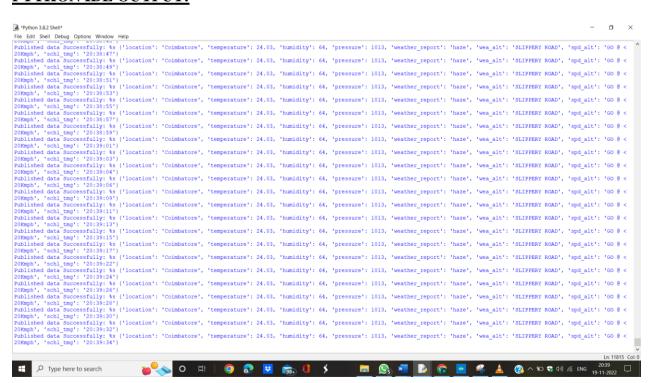
```
import wiotp.sdk.device
import time
import random
import requests
import json
myConfig = {
  "identity": {
    "orgId": "tmwrsv",
    "typeId": "Sprint",
    "deviceId": "sprint12"
  },
  "auth": {
    "token": "KxMwjzjw)BijreluFk"
  }
}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
  m=cmd.data['command']
random.random()
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  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']
    temp1=temp
```

```
if(temp1 < 5):
      alert = "Snow fall may occur"
    hum=humy
    if(hum>85):
      alert = "Probablity of raining is high. Take rain coat with you"
    pre = pres
    wea = report
    if(wea == "clear sky"):
      wea alt1 = "HAPPY JOURNEY"
      spd alt1 = "GO @ < 80Kmph"
    elif(wea == "few clouds"):
      wea alt1 = "CLOUDY DAY"
      spd alt1 = "GO @ < 60Kmph"
    elif (wea == "overcast clouds"):
      wea alt1 = "RAIN MAY COME"
      spd_alt1 = "GO @ < 30Kmph"
    elif(wea == "shower rain"):
      wea alt1 = "SLIPPERY ROAD"
      spd alt1 = "GO @ < 20Kmph"
    elif(wea == "rain" or "moderate rain"):
      wea alt1 = "SLIPPERY ROAD"
      spd_alt1 = "GO @ < 20Kmph"
    elif(wea == "thunderstorm"):
      wea alt1 = "HEAVY RAIN"
      spd alt1 = "GO @ < 10Kmph"
    elif (wea == "snow"):
      wea alt1 = "SNOW ON ROAD"
      spd alt1 = "GO @ < 10Kmph"
    elif(wea == "mist"):
      wea alt1 = "TURN ON FOG LAMP"
      spd_alt1 = "GO @ < 20Kmph"
    else:
      wea alt1 = "HAPPY JOURNEY"
      spd alt1 = "GO @ < 80Kmph"
    xyz = time.ctime()
    ctime = int(xyz[11:13])
    if (ctime > 8 and ctime < 10) or (ctime > 15 and ctime < 18):
      me = 'SCHOOL TIMING GO SLOW SPEED LIMIT: 15Kmph'
      spd_alt1 = "GO @ < 15Kmph!!!"
    else:
      me = xyz[11:19]
    myData={'location':CITY,'temperature':temp, 'humidity':hum, 'pressure':pre,
'weather report':wea,'wea alt':wea alt1,'spd alt':spd alt1,'schl tmg':me}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
   time.sleep(1)
client.disconnect()
```

PYTHON IDE:

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| Rote | Format | Column | Col
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PYTHON IDE OUTPUT:



IBM WATSON IOT PLATFORM OUTPUT:

