DEVELOP A PYTHON SCRIPT AND PUSH DATA TO CLOUD

Team ID	PNT2022TMID19009
Project Name	Gas leakage monitoring and alerting system for Industries

PYTHON CODE:

IBM-cloud.py - C:/Users/paran/OneDrive/Desktop/IBM-cloud.py (3.9.6)

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```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ntcjrf",
        "typeId": "Nodemcu",
        "deviceId":"12345"
    },
    "auth": {
        "token": "ST352*NNHU8mR+P?_O"
    }
}

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:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

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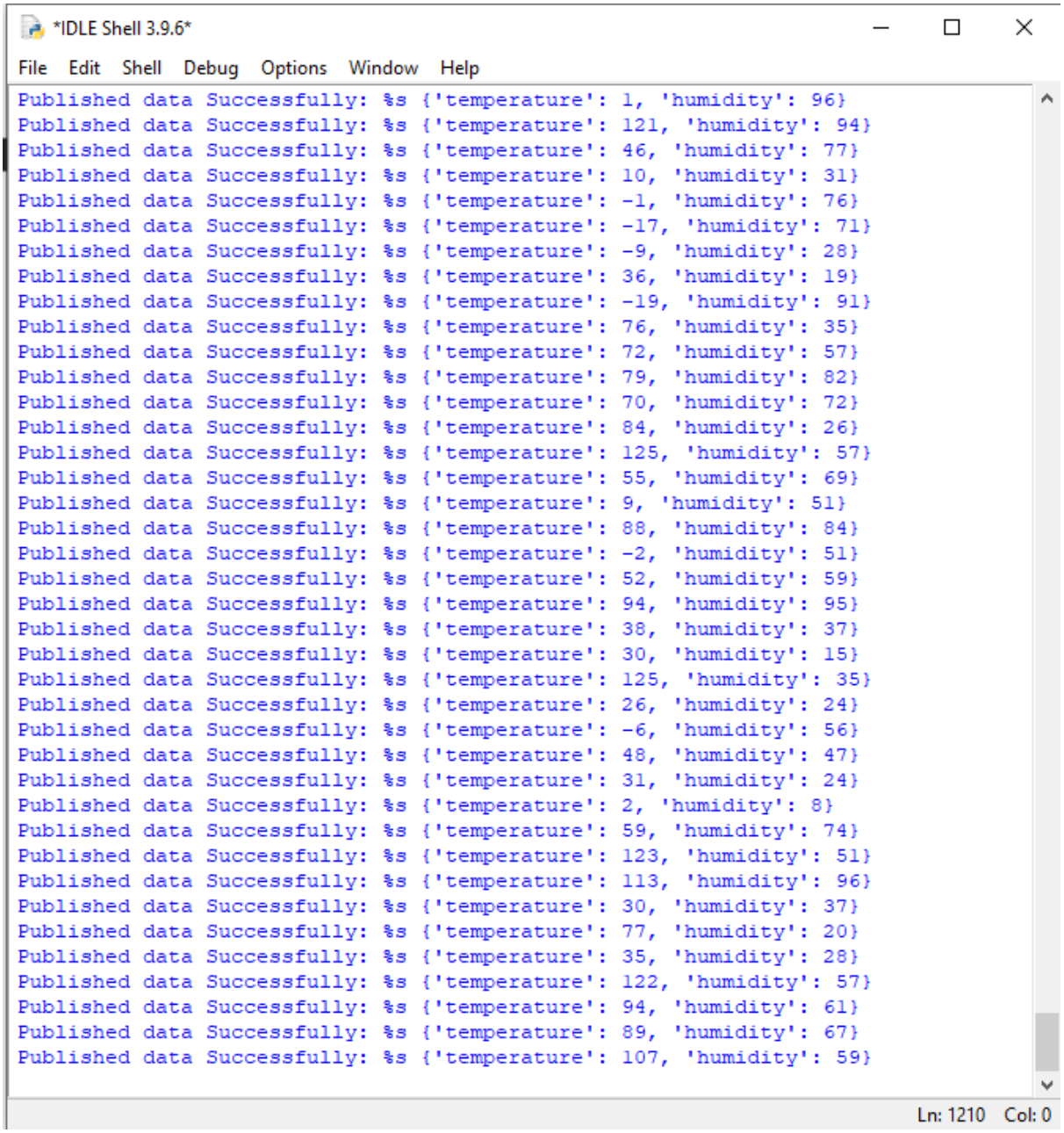
OUTPUT:


IDLE Shell 3.9.6
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Published data Successfully: %s {'temperature': 1, 'humidity': 96}
Published data Successfully: %s {'temperature': 121, 'humidity': 94}
Published data Successfully: %s {'temperature': 46, 'humidity': 77}
Published data Successfully: %s {'temperature': 10, 'humidity': 31}
Published data Successfully: %s {'temperature': -1, 'humidity': 76}
Published data Successfully: %s {'temperature': -17, 'humidity': 71}
Published data Successfully: %s {'temperature': -9, 'humidity': 28}
Published data Successfully: %s {'temperature': 36, 'humidity': 19}
Published data Successfully: %s {'temperature': -19, 'humidity': 91}
Published data Successfully: %s {'temperature': 76, 'humidity': 35}
Published data Successfully: %s {'temperature': 72, 'humidity': 57}
Published data Successfully: %s {'temperature': 79, 'humidity': 82}
Published data Successfully: %s {'temperature': 70, 'humidity': 72}
Published data Successfully: %s {'temperature': 84, 'humidity': 26}
Published data Successfully: %s {'temperature': 125, 'humidity': 57}
Published data Successfully: %s {'temperature': 55, 'humidity': 69}
Published data Successfully: %s {'temperature': 9, 'humidity': 51}
Published data Successfully: %s {'temperature': 88, 'humidity': 84}
Published data Successfully: %s {'temperature': -2, 'humidity': 51}
Published data Successfully: %s {'temperature': 52, 'humidity': 59}
Published data Successfully: %s {'temperature': 94, 'humidity': 95}
Published data Successfully: %s {'temperature': 38, 'humidity': 37}
Published data Successfully: %s {'temperature': 30, 'humidity': 15}
Published data Successfully: %s {'temperature': 125, 'humidity': 35}
Published data Successfully: %s {'temperature': 26, 'humidity': 24}
Published data Successfully: %s {'temperature': -6, 'humidity': 56}
Published data Successfully: %s {'temperature': 48, 'humidity': 47}
Published data Successfully: %s {'temperature': 31, 'humidity': 24}
Published data Successfully: %s {'temperature': 2, 'humidity': 8}
Published data Successfully: %s {'temperature': 59, 'humidity': 74}
Published data Successfully: %s {'temperature': 123, 'humidity': 51}
Published data Successfully: %s {'temperature': 113, 'humidity': 96}
Published data Successfully: %s {'temperature': 30, 'humidity': 37}
Published data Successfully: %s {'temperature': 77, 'humidity': 20}
Published data Successfully: %s {'temperature': 35, 'humidity': 28}
Published data Successfully: %s {'temperature': 122, 'humidity': 57}
Published data Successfully: %s {'temperature': 94, 'humidity': 61}
Published data Successfully: %s {'temperature': 89, 'humidity': 67}
Published data Successfully: %s {'temperature': 107, 'humidity': 59}
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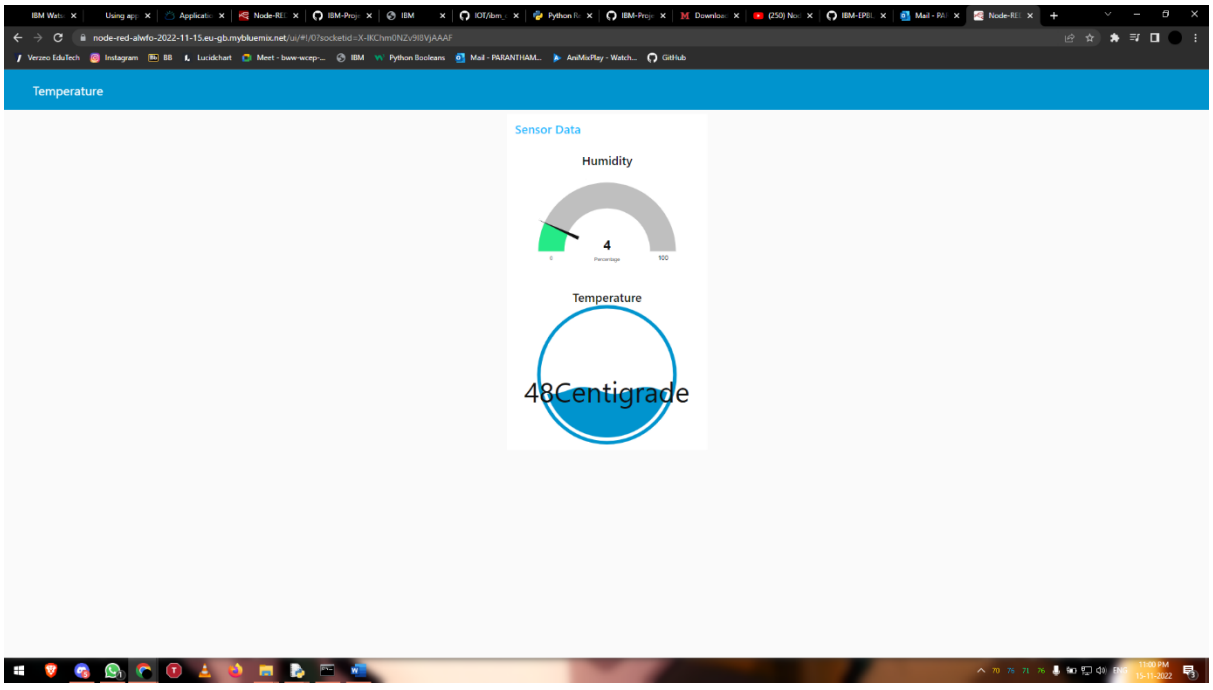
Temperature
Sensor Data
Humidity
4
Temperature
48Centigrade