PROJECT DEVELOPMENT PHASE

SPRINT-1

Team ID	PNT2022TMID15984
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IOT
Team Members	Anuvarshini SS Bhuvaneshwari S Fiona M Geethika KN

Code:

sprint 1 code.py - C:/Users/admin/Desktop/sprint 1 code.py (3.7.0)

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```
import time
import sys
import random
import ibmiotf.application
import ibmiotf.device
organization = "22h45t"
deviceType = "NodeMCU"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"
try:
    deviceOptions = {"org": organization, "type": deviceType,"id": deviceId, "auth-method": authMethod, "auth-token":authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()
deviceCli.connect()
while True:
    temp=random.randint(0,100)
    Humid=random.randint(0,100)
    Gas=random.randint(0,100)

    data = { 'temp' : temp, 'Humid': Humid, 'Gas': Gas }

    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %%" %Humid, "Gas Concentration = %s" %Gas )
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoTF")
    time.sleep(10)

deviceCli.disconnect()
```

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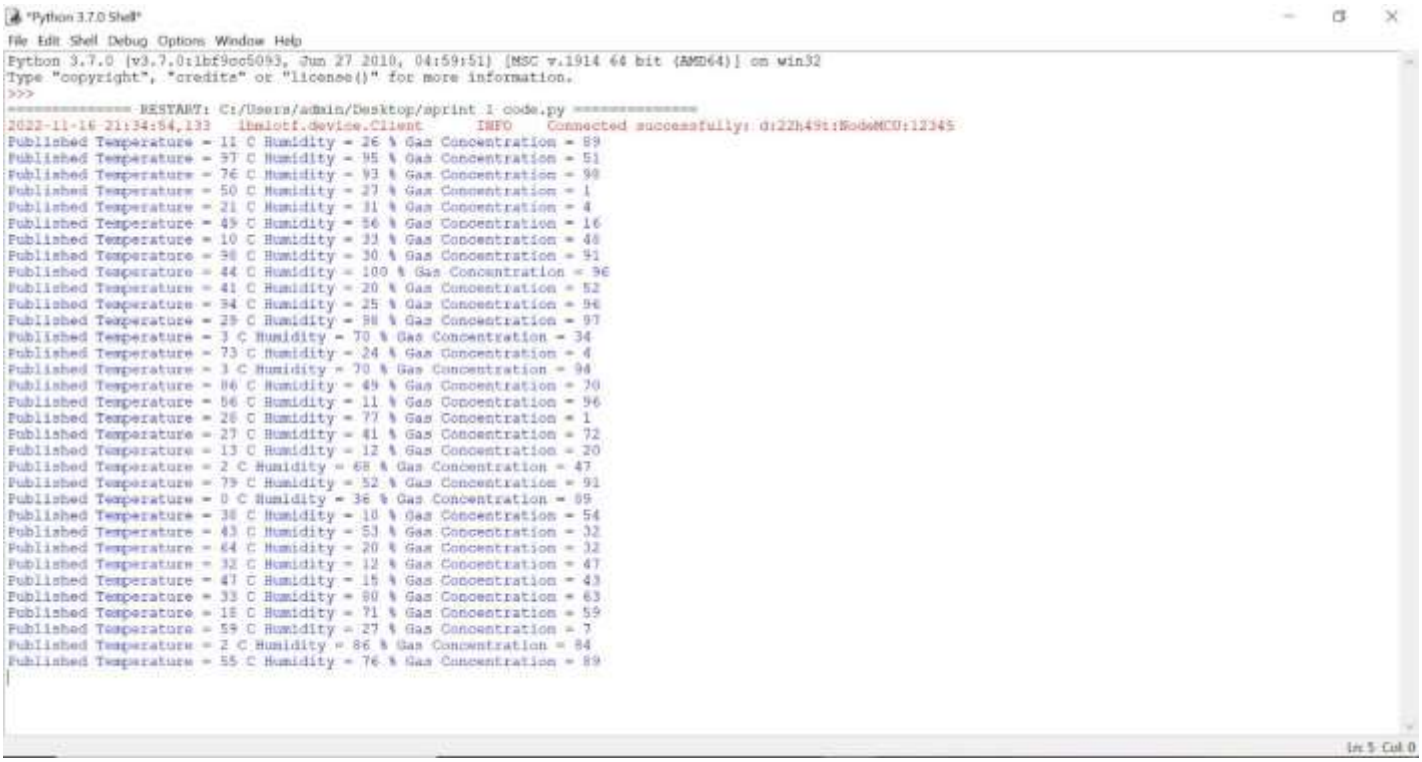
Output:



Cloud output: