DEVELOP A PYTHON SCRIPT

Date	12 September 2022
Team ID	PNT2022TMID41966
Project Name	IOT Based Smart Crop Protection For
	Agriculture
Maximum Marks	4 Marks

Python Code:

```
import wiotp.sdk.device
import time
import random
myConfig={
"identity": {
"orgld": "67n9bf",
"typeld": "udaya",
"deviceId":"123456"},
"auth": {
"token": "622519106052"
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
if(m=="motoron"):
print("Motor is switched on")
elif(m=="motoroff"):
print("Motor is switched off")
 print(" ")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
temp=random.randint(-20,125)
hum=random.randint(0,100)
moist=random.randint(0,14)
animal=random.randint(0,1)
if(animal>0.5):
an="animal is present"
an="animal is not present"
myData={'temperature':temp, 'humidity':hum, 'Moisture':moist,"animal status":an}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
print("Published data Successfully: %s", myData)
client.commandCallback = myCommandCallback
time.sleep(2)
client.disconnect()
```

program:

OUTPUT:

```
Fight fift Shell Debug Options Window Help

Fight and Sci (Val.6.5f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32

Type "copyright", "credits" or "license()" for more information.

***PRESTART: C://Wsers/Fartha/AppDeta/Local/Programs/Python/Python36-32/udhaya.py

2022-11-16 (89:01:159,958) wicep.skt.device.client.DeviceClient INFO Connected successfully: d:67n9bf:udaya:123456Published data Successfully: 8 ("temperature": 6, "naminal status": "animal is present")

Fublished data Successfully: 8 ('temperature': 84, 'humidity': 63, 'Moisture': 13, 'animal status': 'animal is not present')

Fublished data Successfully: 8 ('temperature': 83, 'humidity': 95, 'Moisture': 13, 'animal status': 'animal is not present')

Fublished data Successfully: 8 ('temperature': 83, 'humidity': 95, 'Moisture': 13, 'animal status': 'animal is present')

Fublished data Successfully: 8 ('temperature': 86, 'humidity': 95, 'Moisture': 4, 'animal status': 'animal is present')

Fublished data Successfully: 8 ('temperature': 96, 'humidity': 95, 'Moisture': 4, 'animal status': 'animal is present')

Fublished data Successfully: 8 ('temperature': 96, 'humidity': 95, 'Moisture': 9, 'animal status': 'animal is present')

Fublished data Successfully: 8 ('temperature': 96, 'humidity': 95, 'Moisture': 9, 'animal status': 'animal is present')

Fublished data Successfully: 8 ('temperature': 96, 'humidity': 97, 'Moisture': 97, 'animal status': 'animal is present')

Fublished data Successfully: 80 ('temperature': 96, 'humidity': 97, 'Moisture': 97, 'animal status': 'animal is present')

Fublished data Successfully: 80 ('temperature': 96, 'humidity': 97, 'Moisture': 97, 'animal status': 'animal is not present')

Fublished data Successfully: 80 ('temperature': 96, 'humidity': 97, 'Moisture': 13, 'moisture': 13, 'moisture': 13, 'moisture': 13, 'moisture': 13, 'moisture': 13,
```

