DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

Team Id	PNT2022TMID16026
Project Name	Smart Farmer – IOT Enabled Smart
	Farming Application

PROGRAM:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "14dcvs",
    "typeId": "Device1",
    "deviceId":"12345"
  },
  "auth": {
    "token": "87654321"
  }
}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
```

```
m=cmd.data['command']
  if(m=="Motor On"):
    print("****///Motors ARE ON///****")
  else:
    print("****///Motors ARE OFF///****")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temp=random.randint(-20,125)
  hum=random.randint(0,100)
  Mois=random.randint(20,120)
  myData={'temperature':temp, 'humidity':hum, 'moisture':Mois}
  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()
```

