Team ID	PNT2022TMID30918
Project Name	Smart farmer - lot Enabled Smart Farming Application.
Team leader	Sapna Priya J
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## Develop A Python Script To Publish And Subscribe To IBM IoT Platform

## **PYTHON CODE**

```
🕞 new 1.py - C:\Users\sapna\Desktop\project\new 1.py (3.7.0)
File Edit Format Run Options Window Help
import time
 import sys
 import ibmiotf.application # to install pip install ibmiotf
 import ibmiotf.device
 import random
#Provide your IBM Watson Device Credentials
organization = "31m451" #replace the ORG ID
deviceType = "abcd"#replace the Device type wi
deviceId = "801537"#replace Device ID
 authMethod = "token"
 authToken = "12345678" #Replace the authtoken
 def myCommandCallback(cmd): # function for Callback
          print("Command received: %s" % cmd.data)
           if cmd.data['command'] == 'motoron':
    print("Motor On IS RECEIVED")
          elif cmd.data['command']=='motoroff':
    print("Motor Off IS RECEIVED")
           if cmd.command == "setInterval":
                      if 'interval' not in cmd.data:
                              print("Error - command is missing required information: 'interval'")
                                interval = cmd.data['interval']
           elif cmd.command == "print":
    if 'message' not in cmd.data:
                               print("Error - command is missing required information: 'message'")
                     else:
                                output=cmd.data['message']
                                print(output)
           deviceOptions = ("org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken)
           deviceCli = ibmiotf.device.Client(deviceOptions)
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times deviceCli.connect()
          Humid=random.randint(60,100)
         Humid=random.randint(60,100)
data = ('temp': temp, 'Humid': Humid)
def myOnPublishCallback():
    print("Published Temperature = %s C" % temp, "Humidity = %s %%" %Humid, "to IBM Watson")
success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
          if not success:
         print("Not connected to IoTF")
time.sleep(20)
         deviceCli.commandCallback = myCommandCallback
```

## **OUTPUT**

🌛 \*Python 3.7.0 Shell\* - 0

```
Connected successfully: d:3lm451:abcd:801537
```