## **SPRINT 3**

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PROJECT NAME	Smartfarmer - IOT enabled smart
	Farming Application

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

## **PYTHON CODE**

```
import wiotp.sdk.device
import time import os
import datetime import
random
```

```
myConfig = {
    "identity":{
        "orgId":"0e7wko",
        "typeId":"Node-red",
        "deviceId":"123456"
        },
    "auth":{
        "token":"12345678"
        }
}
```

```
}
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None) client.connect()
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(" ") while True:
  soil=random.randint(0,100) temp=random.randint(-20,125)
hum=random.randint(0,100)
myData={'soil_moisture':soil,'temperature':temp,'humidity':hum}
client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None) print("Published data
                            time.sleep(2)
successfully: %s", myData)
client.commandCallback = myCommandCallback
client.disconnect()
```

## **OUTPUT SCREENSHOT:**

