

PROJECT TITLE: IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

**Task – Develop a Python Script**

```
import wiotp.sdk.device

import time import os

import datetime

import random

myConfig = {

    "identity": {

        "orgId": "hjSfmy",

        "typeId": "DeviceIdk",

        "deviceId": "67890"

    },

    "auth": {

        "token": "87654321"

    }

}

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 Successfully: %s",  
  
myData)  time.sleep (2)  
  
client.commandCallback =  
  
myCommandCallback  
  
client.disconnect ()
```