

SMARTFARMER - IOT ENABLED SMART FARMING APPLICATION

Team ID	PNT2022TMID43471
Project Name	Project – IOT enabled smart farming application
Maximum Marks	4 Marks

Team members:

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Python script:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity": {
        "orgid": "hj5fmy",
        "typeid": "device1",
        "deviceid": "67890"
    },
    "auth": {
        "token": "87654321"
```

```

    }
}
client = wiotp.sdk.device.deviceclient(config=myconfig, loghandlers=None)
client.onnect()

def myCommendcallback(cmd):
    print ("message received from IBM IOT Platform: %s" %
cmd.data['commend'])
    m=cmd.data['commend']
    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", msgFrmat="json", data=myData,
qos=0, onPublish=None)
    print("published data Successfully :%s", myData)
    time.sleep(2)
    client.commandCallback = myCommedCallback
    client.disconnect()

```