

TEAM ID	PNT2022TMID22860
PROJECT NAME	IoT based crop protection system for agriculture

## PYTHON CODE

```

import wiotp.sdk.device
import time
import random

myConfig={
    "identity": {
        "orgId": "c0b4co",
        "typeId": "NodeMCU",
        "deviceId": "12345"},
    "auth": {
        "token": "12345678"
    }
}

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(" ")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)

```

```
moist=random.randint(0,14)
```

```
animal=random.randint(0,1)
```

```
if(animal>0.5):
```

```
    an="animal is present"
```

```
else:
```

```
    an="animal is not present"
```

```
myData={'temperature':temp, 'humidity':hum, 'Moisture':moist,"animal status":an}
```

```
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()
```