VSB Engineering College

Sprint 1

Team ID	PNT2022TMID33476
Project Name	IOT - enabled smartfarming Application

PYTHON CODE:

```python
import wiotp.sdk.device
import time
import os
import random
myconfig = {
"identity": {
"orgId":"3lnltf",
"typeId":"NodeMCU",
"deviceId":"12345"
},
"auth":{
"token":"12345678"
}
}
client = wiotp.sdk.device.DeviceClient(config=myconfig,
logHandlers=None)
client.connect()
def myCommandCallback(cmd):
print("Messure recived from IBM ToT Platform: %s" %
cmd.data['command'])
m=cmd.data['command']
if(m=="Motor is switched on"):
print("Motoris switched on"
elif(m=="motoroff"):
print("Motor is switched OFF")
print("")
while True:
soil=random.randint(22, 100)
temp=random.randint(-20, 125)
hum=random.randint(0, 100)
myData={'soil_moisture':soil,
```

```python
'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()
```