

PROJECT SPRINT – 1

Date	16 November 2022
Team ID	PNT20212TMID49320
Project Name	Smart Farmer - IoT Enabled SmartFarming Application

Code :

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity":
    {
        "orgId": "dsjtjb",
        "typeId": "new ",
        "device Id": "12345"
    },
    "auth":{
        "token" : "87654321"
    }
}
client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
client.connect ()

def myCommandCallback(cmd) :
    print ("Message received from IBM IoT Plat form: %s" cmd.data ['command'])
    m=cmd.data ['command']
    if(m=="motoron"):
        print("motot 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()
```

Circuit Diagram :

