

SPRINT I

Code for connection of sensor and motor control with hardware

DOMAIN: INTERNET OF THINGS

Project Title: Smart Farmer – IOT Enabled Smart Farming Application

TEAM ID	PNT2022TMID48661
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Team Members:

M.BALAJI 920819106008

S.HARISHWAR 920819106019

J.KISHOREKRISHNAA 920819106026

N.KIRTHICK 920819106025

Sensors and wi-fi module with python code

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity": {
        "orgId": "vut8fi",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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:
    temp=random.randint(-20,125)
    soil=random.randint(0,100)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'soil_moisture':soil, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    time.sleep(1)
    client.commandcallback = myCommandCallback
client.disconnect()
```