SPRINT 1

Sensors and Wi-Fi module with python code

Date	01 November 2022
Team ID	PNT2022TMID43020
Project Name	Smart Farmer IoT enabled smart farming

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time import
random myConfig = {
  "identity": {
    "orgId": "Olz4tn",
    "typeId": "NodeMCU",
    "deviceId":"24680"
  },
  "auth": {
    "token": "1133557799"
  }
}
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(0,100)
hum=random.randint(0,100)
soil=random.randint(0,100)
myData={'Temperature':temp,
      'Humidity':hum,
'SoilMoisture':soil}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
  print("Published data Successfully: %s", myData)
if(soil<20):
    print("Less moisture is detected")
else:
    print("Moisture is sufficient")
time.sleep(2)
  client.commandCallback = myCommandCallback client.disconnect()
```

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