SPRINT - 1

Date	28 October 2022
Team ID	PNT2022TMID21342
Project Name	Project – Smart Farmer- IoT based Smart Farming Application

OBJECTIVE:

Connecting Sensors with Arduino.

PYTHON CODE:

```
import time
import random
#import ibmiotf.application
import ibmiotf.device
import sys
config={
    "org":"nq4lh2",
    "type":"abcd",
    "id":"123",
    "auth-method":"token",
    "auth-token":"123456789"
client= ibmiotf.device.Client (config)
client.connect()
def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
         pass
    else:
```

```
print(a["command"])
def pub (data):
    client.publishEvent(event="status",
msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)
while True:
    s=random.randint(0,100)
    h=random.randint(0,100)
    t=random.randint(0,100)
    data={"sm":s,"hum":h,"temp":t}
    pub(data)
    client.commandCallback = myCommandCallback
client.disconnect()
```

OUTPUT: