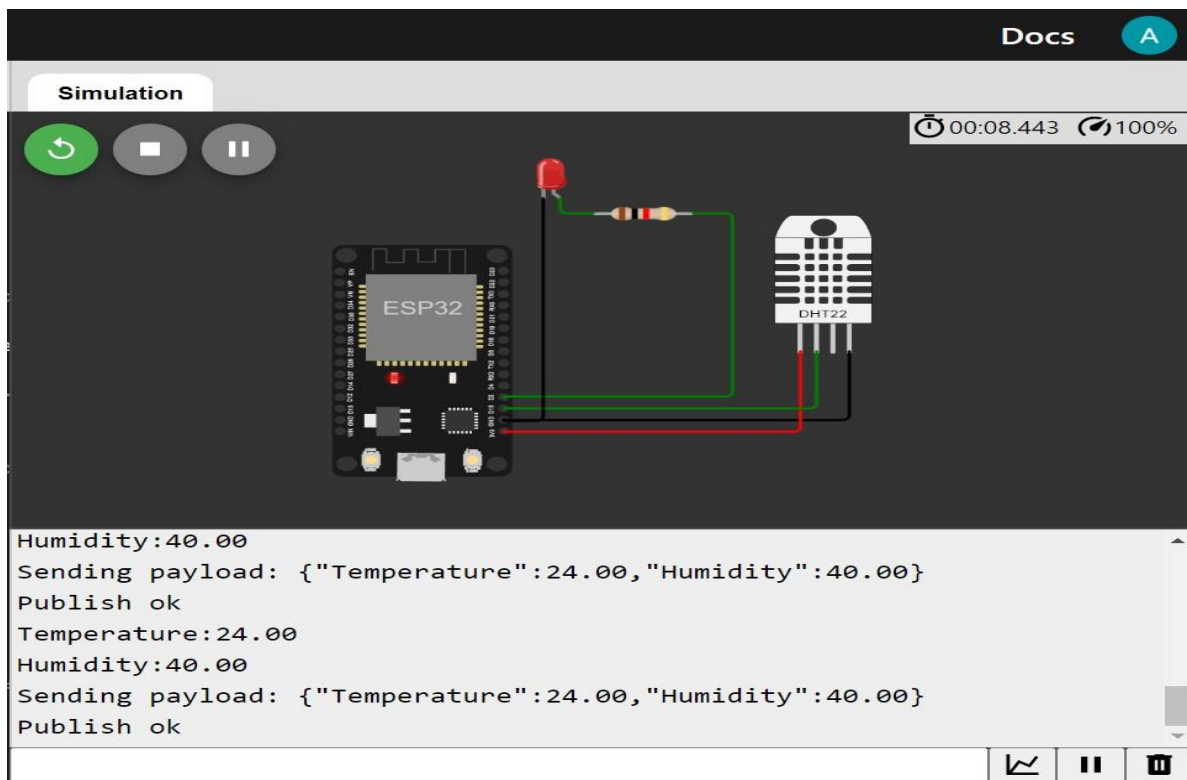


SPRINT 2

Team ID	PNT2022TMID04755
Project Name	SmartFarmer – IOT Enabled Smart Farming Appication

CONNECT SENSOR AND ESP32:



DEVELOP A PYTHON SCRIPT TO PUBLISH RANDOM SENSOR DATA:

```
import wiotp.sdk.device
import time
import OS
import datetime
import random
myConfig = {
    "identity": {
        "orgId": "flippr",
        "typeId": "ESP32_Controller",
        "deviceId": "BME280_Sensor"
```

```

    },
    "auth": {
        "token": "C-4ZDzZOLNhQ11Ckzr"
    }
}
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(" ")
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()

```

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ADDING IOT IN IBM CLOUD:

