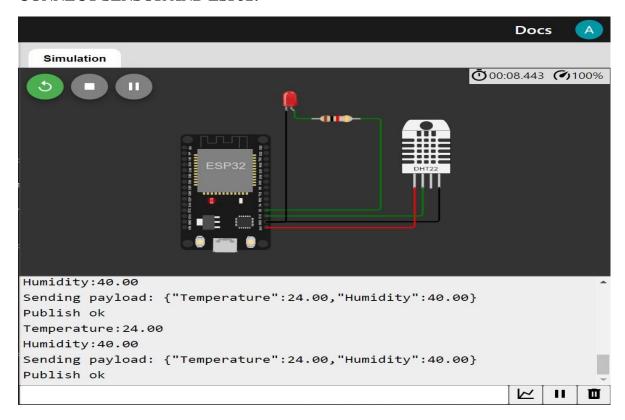
DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE IBM IOT PLATFORM

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TEAM ID	PNT2022TMID04755
PROJECT NAME	SmartFarmer – IOT Enabled Smart Farming
	Application

PYTHON SCRIPT TO PUBLISH RANDOM SENSOR DATA:

```
import wiotp.sdk.device
import time
import OS
import datatime
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()
```

CONNECT SENSOR AND ESP32:



SIMULATION RESULT IN IBM CLOUD:

