SPRINT 2

TEAM ID: PNT2022TMID32078
PYTHON CODE TO IBM

```python
import time import sys import
ibmiotf.application import
ibmiotf.device import random

#Provide your IBM Watson Device Credentials
organization = "wu5b55" deviceType = "crop1"
deviceId = "1234" authMethod =

"token" authToken = "1234567890" # Initialize
GPIO

try:

            deviceOptions={"org":organization,"type":deviceType,"id":

deviceId, "auth-method": authMethod, "auth-token": authToken} deviceCli =
        ibmiotf.device.Client(deviceOptions) #.............................................

except Exception as e: print("Caught exception connecting device: %s" %
        str(e)) sys.exit()
```

```python
# Connect and send a datapoint "hello" with value "world" into the cloud as
an event of type "greeting" 10 times deviceCli.connect()

while True:

        #Get Sensor Data from DHT11

        temp=random.randint(0,100) Hum=random.randint(0,100)
        moisture=random.randint(0,100)

        data = { 'temperature' : temp, 'Humidity': Hum, 'Moisture':moisture }

        #print data def myOnPublishCallback():

            print ("Temperature = " + str(temp)+" C Humidity = " +
str(hum)+ " moisture = " + str(moisture) + "to IBM Watson") success =
deviceCli.publishEvent("IoTSensor", "json", data,

qos=0, on_publish=myOnPublishCallback) if
        not success:

            print("Not connected to IoTF")

        time.sleep(10) deviceCli.commandCallback =
        myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```