project development phase sprint 3

Date	14 NOV 2022
Team ID	PNT2022TMID25229
Project Name	IOT Based Smart Crop Protection
	System For Agriculture

Develop a python script to detect a temperature, humiditty etc

```
code: import time import ibmiotf.application import ibmiotf.device import random
```

else:

#print(cmd)

print ("led is off")

```
#Provide your IBM Watson Device Credentials
organization = "ii5wx2"
deviceType = "abcd" deviceId =
"1234" authMethod = "use-
token-auth"
authToken = "12345678"

# Initialize GPIO

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
```

```
try: deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "authtoken":
authToken}
      deviceCli = ibmiotf.device.Client(deviceOptions)
       except Exception as e: print("Caught exception connecting
device: %s" % str(e)) sys.exit()
# 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)
   Humid=random.randint(0,100)
   data = { 'temp' : temp, 'Humid': Humid }
   #print data
   def myOnPublishCallback():
     print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "to IBM Watson")
   success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
   if not success:
     print("Not connected to IoTF")
   time.sleep(1)
   deviceCli.commandCallback = myCommandCallback
```

Disconnect the device and application from the cloud deviceCli.disconnect()

```
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*sprint2.py - C:/Users/Pc/Desktop/project/sprint2.py (3.10.7)*
File Edit Format Run Options Window Help
import time
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
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organization = "ii5wx2"
deviceType = "abod"
deviceId = "1234"
authMethod = "use-token-auth"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
   print ("led is on")
else :
       print ("led is off")
#print(cmd)
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))
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()
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