DEVELOP A PYTHON SCRIPT

Team ID	PNT2022TMID50079
Date	18-11-2022
Project Name	IOT based safety gadget for child safety monitoring and notification

```
import time import sys import
  ibmiotf.application import
  ibmiotf.device import random
#Provide your IBM Watson Device Credentials organization
= "awb990" deviceType = "NodeMCU" deviceId = "12345"
authMethod = "token" authToken
  = "12345678"
  # Initialize GPIO
 def \ my Command Callback (cmd): print ("Command \ received: \%s" \ \%
    cmd.data['command']) status=cmd.data['command']
    if status=="lighton":
      print ("led is on")
    elif status== "lightoff":
      print ("led is off")
```

else:

```
print ("please send proper command")
  #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)) 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(90,100)
    Humid=random.randint(60,100)
    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()

OUTPUT:

```
# Tython 3.70 She"

The End SheW Debug Options Window Help

Python 3.7.0 (19.3.7-0 lithfoco5093, Jun 27 2016, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32 type "copyright", "credita" or "license()" for more information.

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