DEVELOP A PYTHON SCRIPT

Python Script

Team ID	PNT2022TMID27948
Project Name	IoT-Based Safety Gadget for Child Safety Monitoring and Notification
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```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "9g56i9"
deviceType = "abcd"
deviceId = "12"
authMethod = "token"
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")
   elif status == "lightoff":
            print("led is off")
   else:
            print("please send proper command")

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(90,110)
            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(10)

            deviceCli.commandCallback=myCommandCallback

#disconnect the device and application from the cloud
deviceCli.disconnect()
```

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
============== RESTART: C:\Users\S\Desktop\IBM\Python Script.py ==============
2022-11-16 20:08:49,618   ibmiotf.device.Client      INFO    Connected successfu
lly: d:9g56i9:abcd:12
Published Temperature =105 C Humidity=76 % to IBM Watson
Published Temperature =108 C Humidity=100 % to IBM Watson
Published Temperature =98 C Humidity=88 % to IBM Watson
Published Temperature =98 C Humidity=83 % to IBM Watson
```