SPRINT-3

Develop Python Script

Date	12 November 2022
Team ID	PNT2022TMID46185
Project Name	Sign with Smart Connectivity For Better Road
	Safety

PYTHON CODE: import time import sys import ibmiotf.application import ibmiotf.device import random #Provide your IBM Watson Device Credentials organization = "yw26zg" deviceType = "betterroad" deviceId = "123456" 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")
  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))
       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("event_1", "json", data, qos=0,
on_publish=myOnPublishCallback)

if not success:
    print("Not connected to IoTF")

time.sleep(1)

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

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print("Caught exception connecting device: %s" % str(e))
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 # 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 )
fprint data
def myOnPublishcallback():
  print ("Published Temperature = %s C" % temp, "humidity = %s " % humid ,"to IBM Watson")
         success = deviceCli.publishTvent("event_l", "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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```

OUTPUT:



