PROJECT DEVELOPMENT PHASE

SPRINT-3 CODING

Date	08 November 2022
Team ID	PNT2022TMID49499
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

Coding:

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


#Provide your IBM Watson Device Credentials
organization = "dm86e1"
deviceType = "raspberrypi"
deviceId = "demo333"
authMethod = "token"
authToken = "12345678"

# Initialize GPIO

   #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

        speed=random.randint(50,100);

        data = { 'speed' : speed }
        #print data
        def myOnPublishCallback():
            print ("Published Driver Speed = %s km" % speed, "to IBM Watson")

        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
        time.sleep(5)

        deviceCli.commandCallback = 'myCommandCallback'

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