TITLE:	Signs with smart connectivity for better road safety
TEAM ID:	PNT2022TMID08255
PHASE:	Publish Data to the IBM CLOUD

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Publish Data to the IBM Cloud:
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "nto8zt"
deviceType = "abcd"
deviceId = "12345"
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")
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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()
```

OUTPUT:

