SIGNS WITH SMART CONNECTIVIT Y FOR BETTER ROAD SAFETY SOURCE CODE:

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

#Provide your IBM Watson Device Credentials
organization = "8dxkha"
deviceType = "madhu"
deviceId = "madhu"
authMethod = "token"
authToken = "yah&46&uqf!k4Rq!n+" #

Initialize GPIO

```
temp=random.randint(20,50)
humid=random.randint(20,50)
lat =random.uniform(10.781377,10.78643) lon =
random.uniform(79.781377,79.78643)
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['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
    data = { "d": { 'temp' : temp, "lat": lat, "lon": lon } }
    #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()

MIT APP INVENTOR SNAPSHOTS: (FINAL OUTPUT)



TO SHOW DIFFERENCE IN SPEED AND OTHER PARAMETERS

