

Prerequisite-Software

Date	18November 2022
Team ID	PNT2022TMID49512
Project Name	Project - Signs with smart connectivity for better road safety

Software-Python code:

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

#Provide your IBM Watson Device Credentials
organization = "xywyid"
deviceType = "Dharani"
deviceId = "1502"
authMethod = "token"
authToken = "dharanidharu"

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
deviceCli.connect()

while True:
    print("\nInput must given between the range of 0 to 150 \nSensor sensing the
distance is") #Unavailable of sensors in the wokwi and tinkercad, we give
inputs manually
    detect = input()
    Sensing =()
    if detect == "100cm":
        Sensing = "school zone"
    elif detect == "101cm":
        Sensing = "hospital zone"
    else:
        Sensing = "sign is not detected"

    data = { 'Sensing' : Sensing }
    #print data
    def myOnPublishCallback():
        print ("Published Sensing data is %s " % Sensing, "to IBM Watson")
```

```
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,  
on_publish=myOnPublishCallback)  
    if not success:  
        print("Not connected to IoT")  
        time.sleep(1)
```

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