# Project Development Phase Sprint-3

Date	13th November 2022
Team ID	PNT2022TMID47485
Project Name	Project: Signs with Smart Connectivity for Better Road Safety.
Marks	20 Marks

Sprint	Functional Requirement	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-3		US-1	Develop a python script to publish random sensor data such as temperature, humidity, visibility to the IBM IoT platform.	7	High	R. Snega S. Sneha P. Sowmiya N. Rachel Sarah yazhini
Sprint-3		US-2	After developing python code, commands are received print the statements which represent the control of the devices.	5	Medium	R. Snega S. Sneha P. Sowmiya N. Rachel Sarah yazhini
Sprint-3		US-3	Publish Data to the IBM Cloud.	8	High	R. Snega S. Sneha P. Sowmiya N. Rachel Sarah yazhini

### US-1 Develop a python script to publish random sensor data such as temperature, humidity and visibility to the IBM IoT Platform

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

### **#Provide your IBM Watson Device Credentials**

```
organization = "33lnun"
deviceType = "PNT2022TMID47485"
deviceId = "PNT2022TMID47485"
authMethod = "token"
authToken = "BGM(9-Tgfy&lrHmglp"
```

#### #Intialize GPIO

## # Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times

deviceCli.connect()

while True:

sys.exit()

#### #Get Sensor Data from DHT11

```
temp=random.randint(0,100)
humid=random.randint(0,100)
```

```
visi=random.randint(0,100)

data = {'temperature'=temp, 'humidity'=humid,'visibility'=visi}
#print data
def myOnPublishCallback():
    print("Published temperature=%s C" %temp,"humidity =%s %%"
%humid,"visibility =%s %%" %visi,"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(
)
```