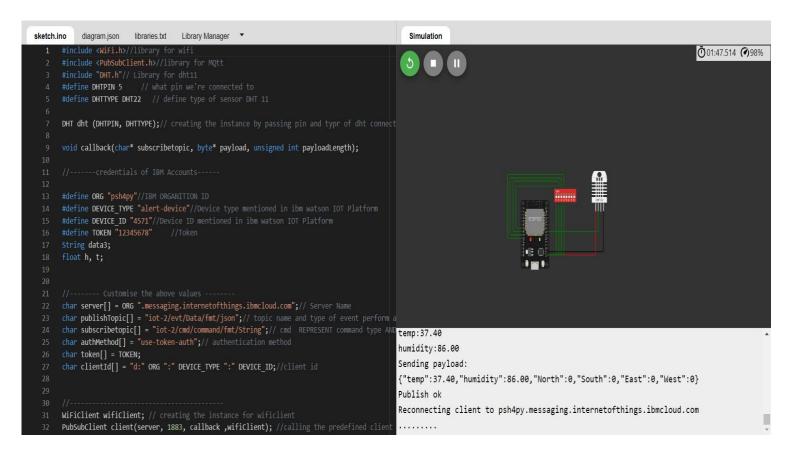
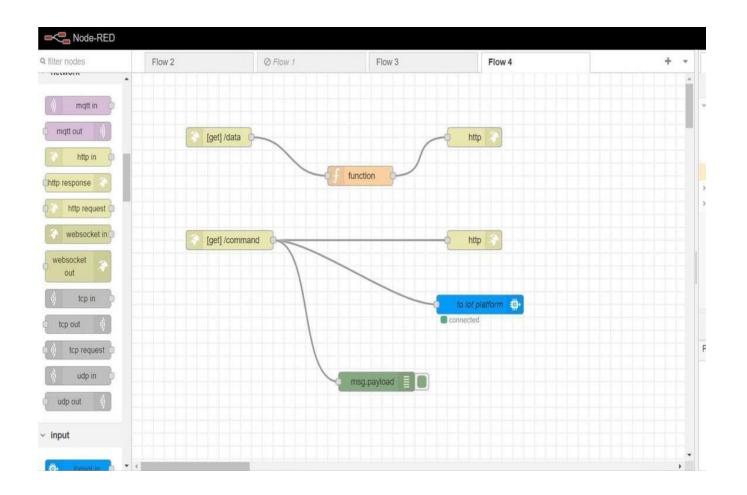
Project Development Phase Sprint-3

Date				17th November 2022			
Team ID				PNT2022TMID27330			
Project Name				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	Medium	Anupama PH, Naveen Kumar Sai T, Ragini Kumari, Praveen Sharma
Sprint-3		US-2	After developing python code, commands are received print the statements which represent the control of the devices.		5	Low	Anupama PH, Naveen Kumar Sai T, Ragini Kumari, Praveen Sharma
Sprint-3		US-3	Publish DIBM Clou	ata to the d.	8	High	Anupama PH, Naveen Kumar Sai T, Ragini Kumari, Praveen Sharma



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MIT App Inventor UI Design



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 = "33Inun" deviceType = "PNT2022TMID47485" deviceId = "PNT2022TMID47485" authMethod = "token" authToken = "BGM(9-Tgfy&IrHmgIp"

#Intialize GPIO

```
#print(cmd)
  try:
  deviceOptions = {"org": organization,"type":
deviceType,"id":deviceId,"authmethod":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(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, gos=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(
         )
```