SmartBridge Externship

Name: Harshitha Munagala Registration number:19BEC0565

Assignment 4:

Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.

Keep a text box to accept the user input.integrate a submit button.
whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL(HTTP API).

Python code:

```
import wiotp.sdk.device
import time
import random

myConfig = {
   "identity": {
      "orgId": "x012hb",
      "typeId": "VITDevice",
      "deviceId":"500062"
   },
   "auth": {
      "token": "12345678"
   }
}

def myCommandCallback(cmd):
   print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
   #m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
   client.commandCallback = myCommandCallback
   time.sleep(2)
client.disconnect()
```

Assignment 4-SmartBridge_Input.py - C:\Users\91995\AppData\Local\Programs\Python\Python37-32\Assignment 4-SmartBridge_Input.py (3.7.4)

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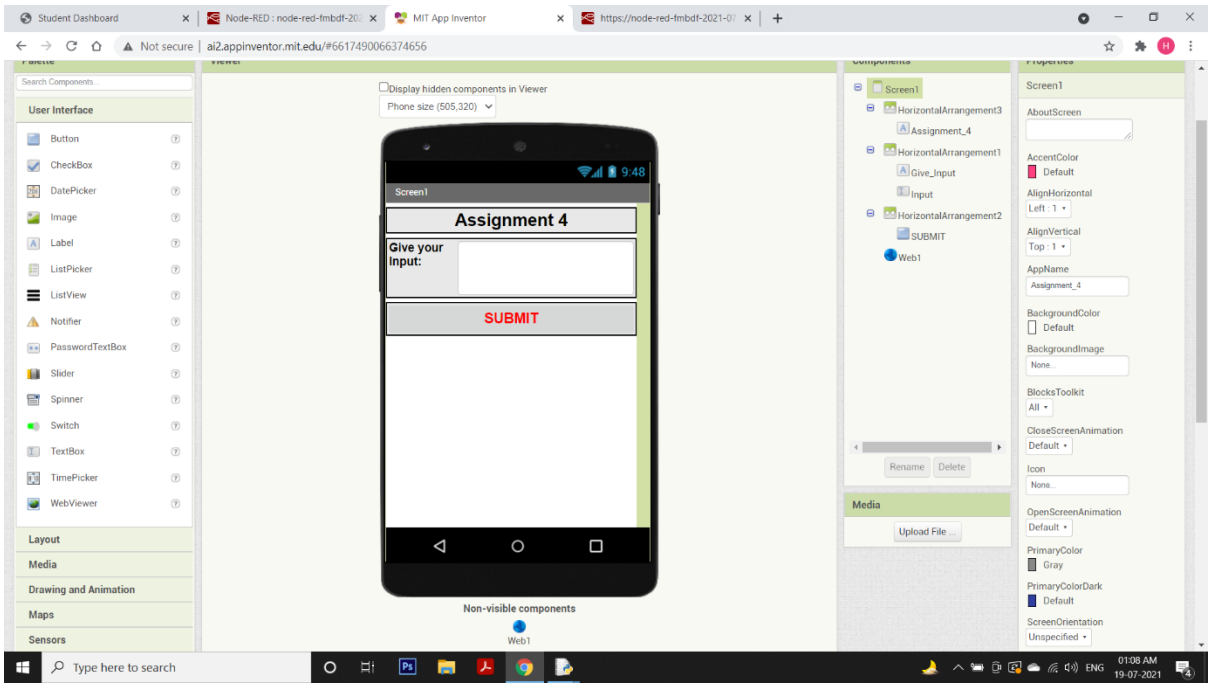
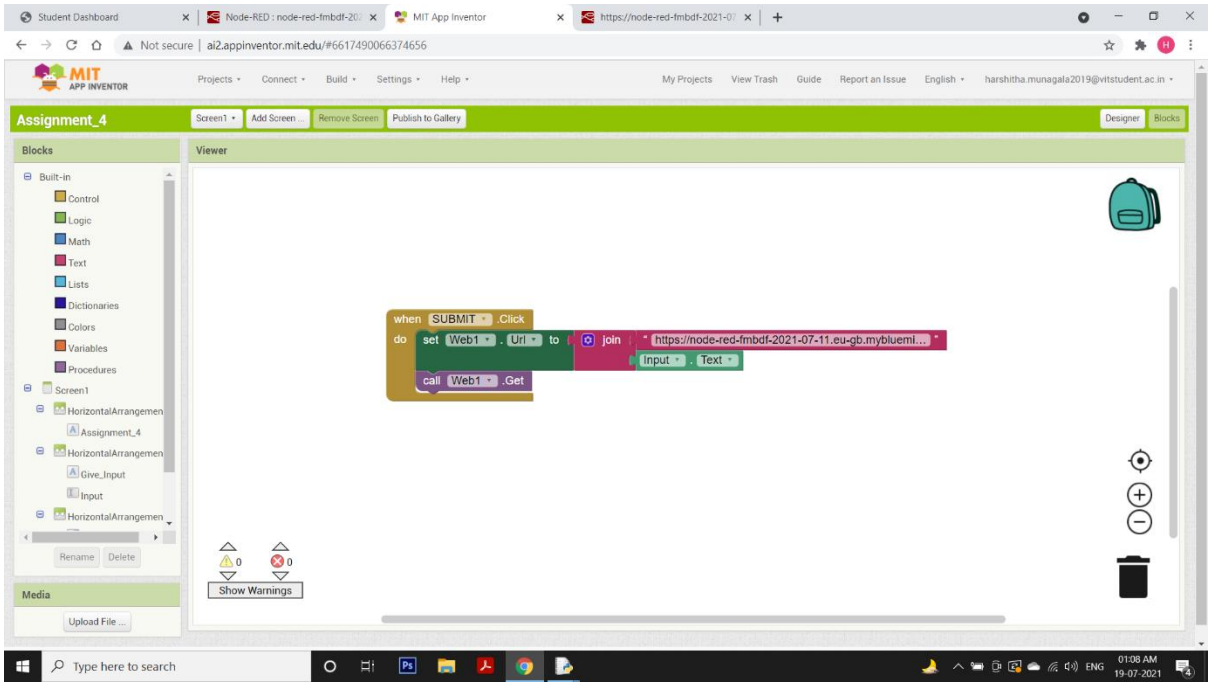
Python code

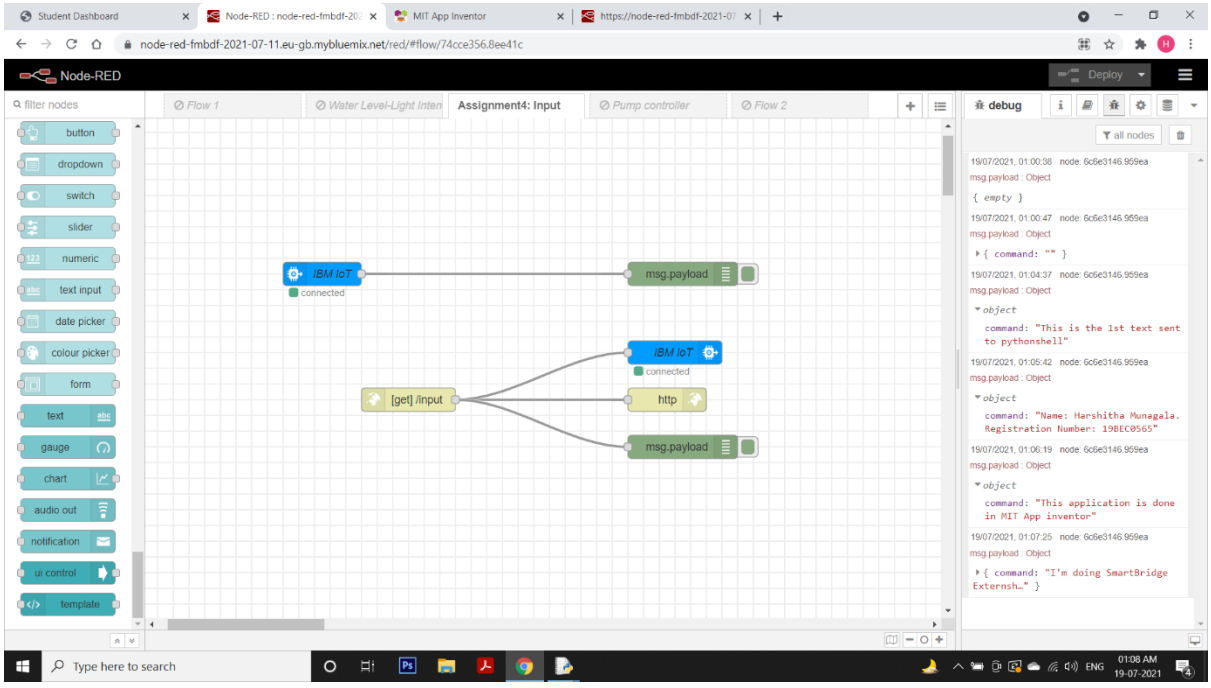


Mobile app design in MIT App Inventor



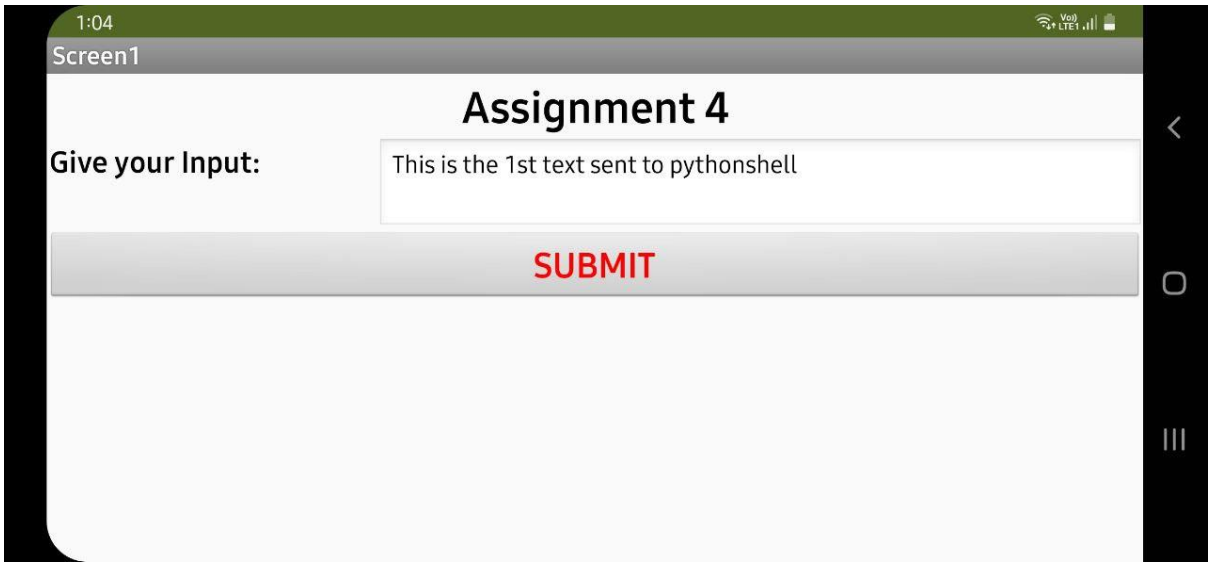
Mobile App Blocks in MIT App Inventor

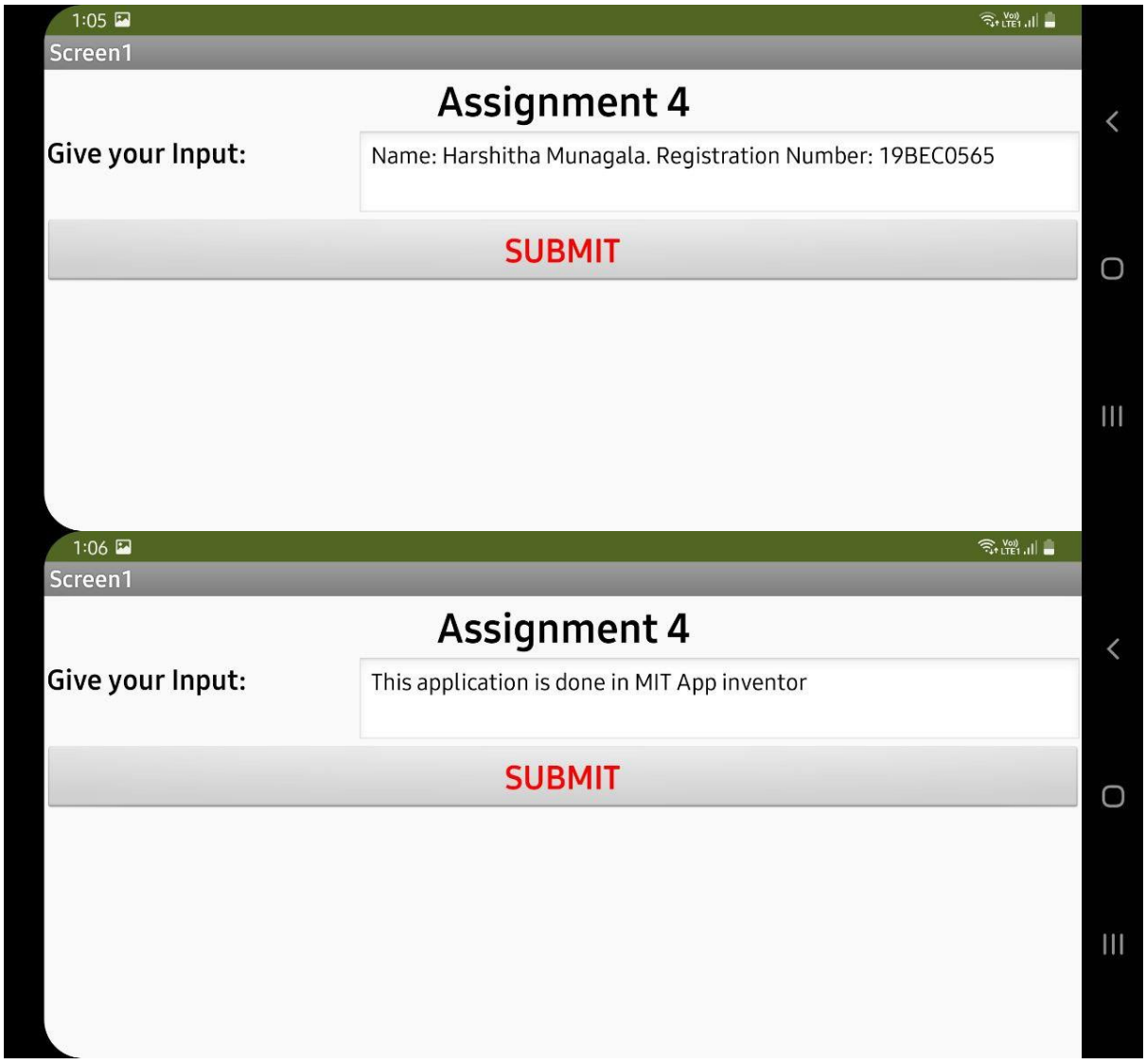
url: https://node-red-fmbdf-2021-07-11.eu-gb.mybluemix.net/input?command=

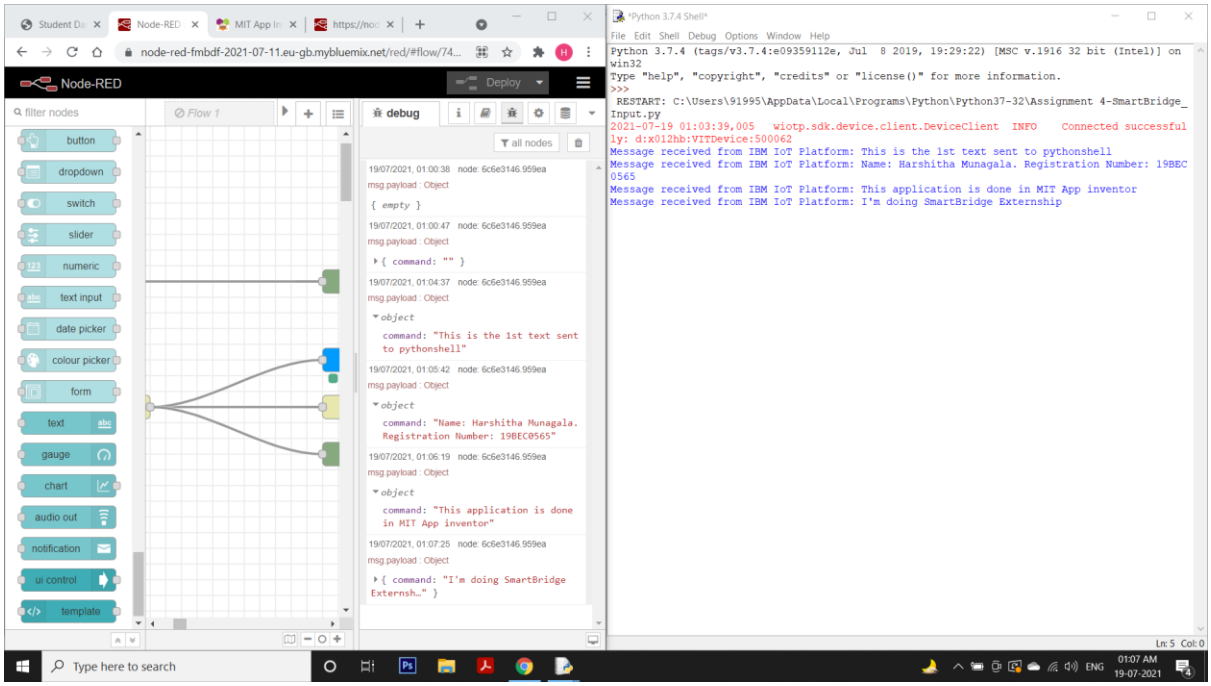


Node-red flow that connects IBM IoT to the mobile application

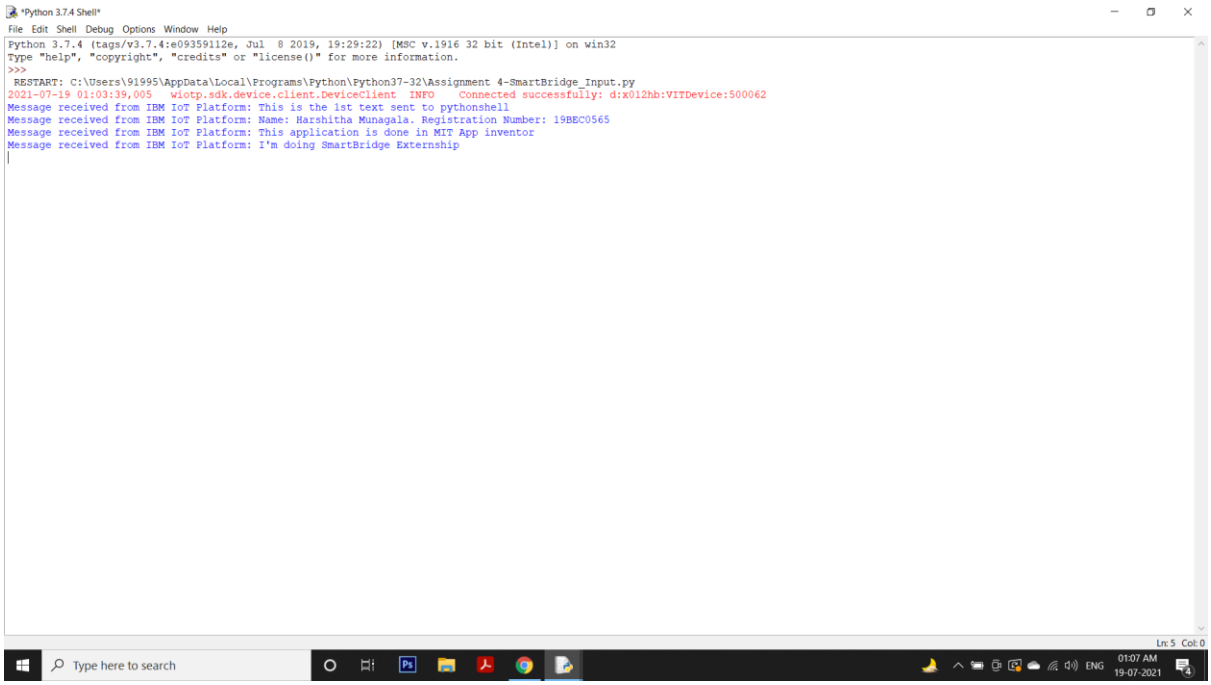
Inputs given through the mobile application connected to MIT AI2 Companion:







Debug screen in Node-red



Output in the python shell