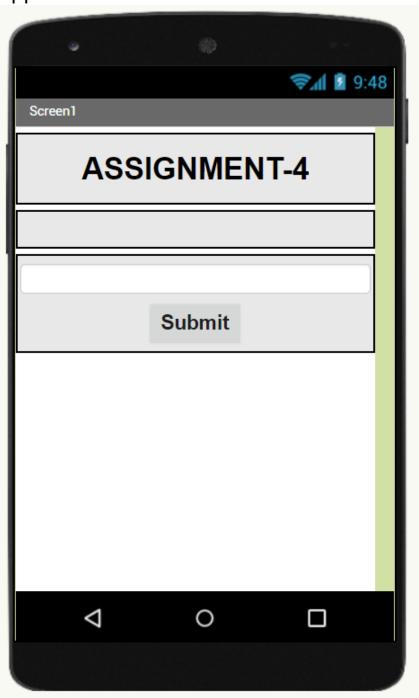
ASSIGNMENT-4

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).

CODE

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "mawtlg",
        "typeId": "VIT-IOT-device",
        "deviceId":"12345"
    "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()
```

Application UI



Blocks to function the above UI

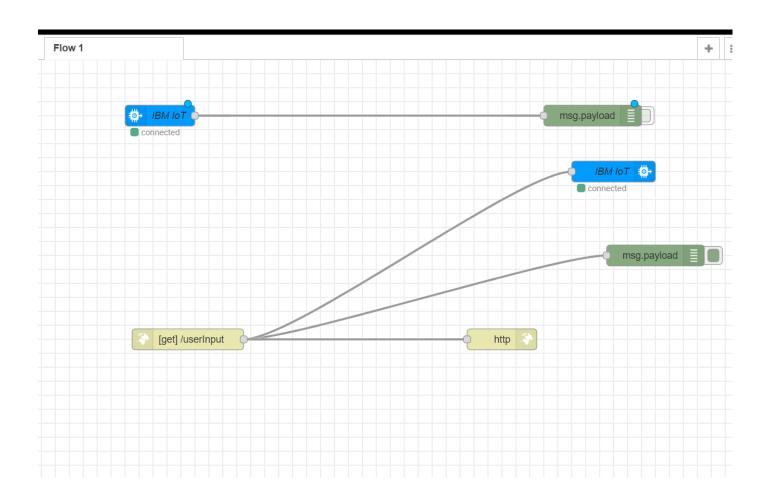
```
when Button1 v .Click

do set Web1 v . Url v to poin thttps://node-red-hzwdu-2021-07-12.eu-gb.mybluemi... "

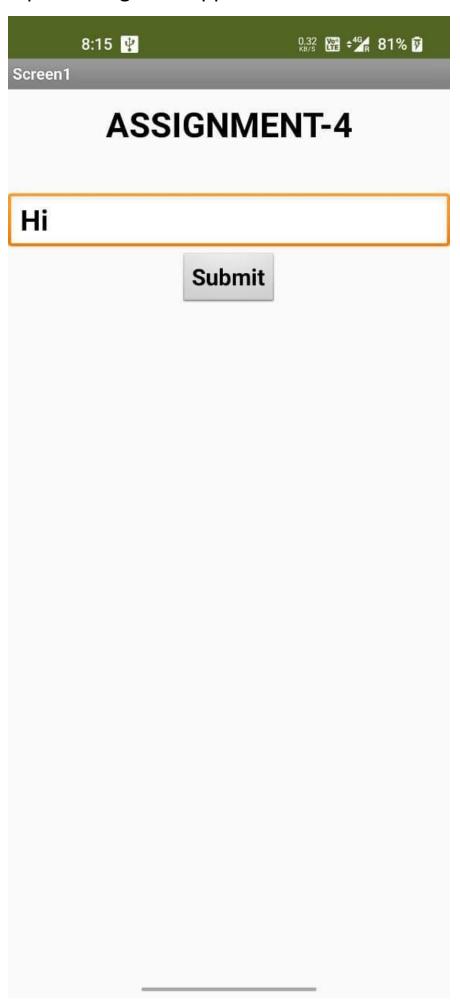
TextBox1 v . Text v

call Web1 v .Get
```

Node-red Flow that connects the IBMIoT with the Application



Input through the App:

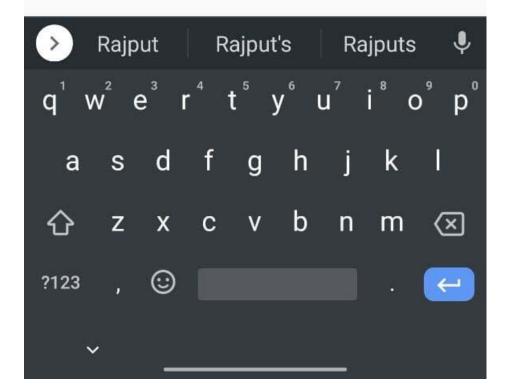




ASSIGNMENT-4

Shivam Rajput

Submit



Outputs:

Node-red Debug Screen:

```
₩ debug
                   ī
                             T all nodes
7/19/2021, 8:15:27 PM node: 2cbca804.585d78
msg.payload : Object
 ▶ { command: "Hi" }
7/19/2021, 8:16:01 PM node: 2cbca804.585d78
msg.payload : Object
 ▶ { command: "Shivam Rajput" }
```

Python shell:

```
File Edit Shell Debug Options Window Help

Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AM D64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

======== RESTART: C:\Users\shiva\OneDrive\Desktop\fryfyyjtyjyh.py ========
2021-07-19 20:14:44,295 wiotp.sdk.device.client.DeviceClient INFO Connecte d successfully: d:mawtlg:VIT-IOT-device:12345

Message received from IBM IoT Platform: Hi
Message received from IBM IoT Platform: Hi
Message received from IBM IoT Platform: Shivam Rajput
```