# Assignment 4

P. Sri Bala Harish

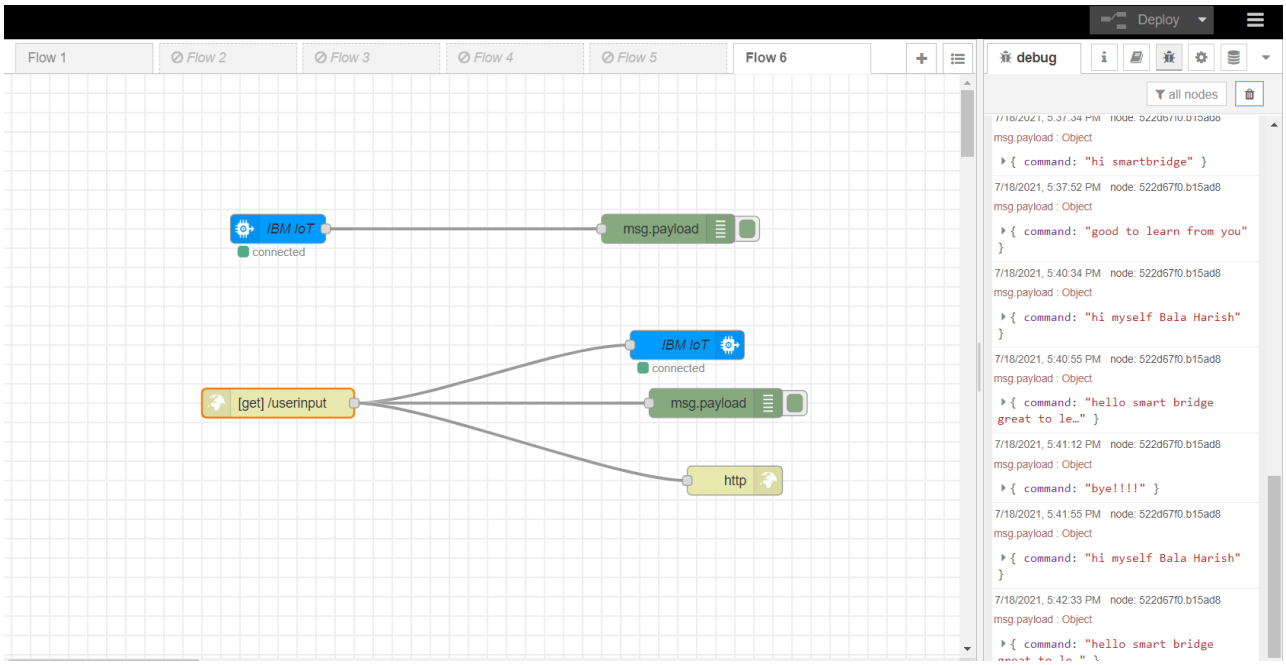
Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.
Keep a text box to accept the user input, integrate a submit button.
whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL (HTTP API).

Code:

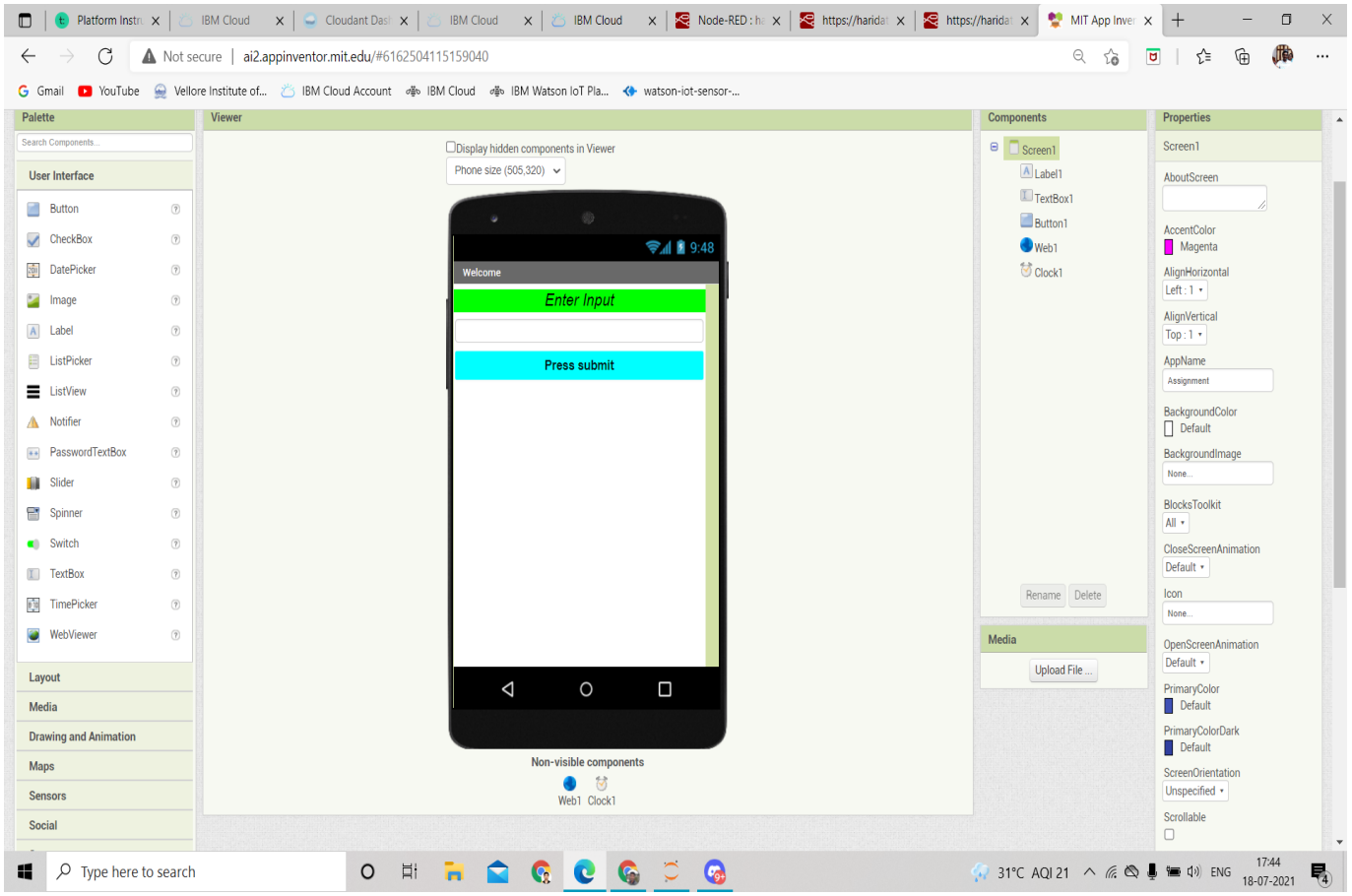
```
import wiotp.sdk.device

import time

import random

myConfig = {

   "identity": {

      "orgId": "aannkh",

      "typeId": "VITharish",

      "deviceId":"12345"

   },

   "auth": {

      "token": "9381628451"

   }

}


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
    #print(client.commandCallback)
    time.sleep(2)
client.disconnect()
```

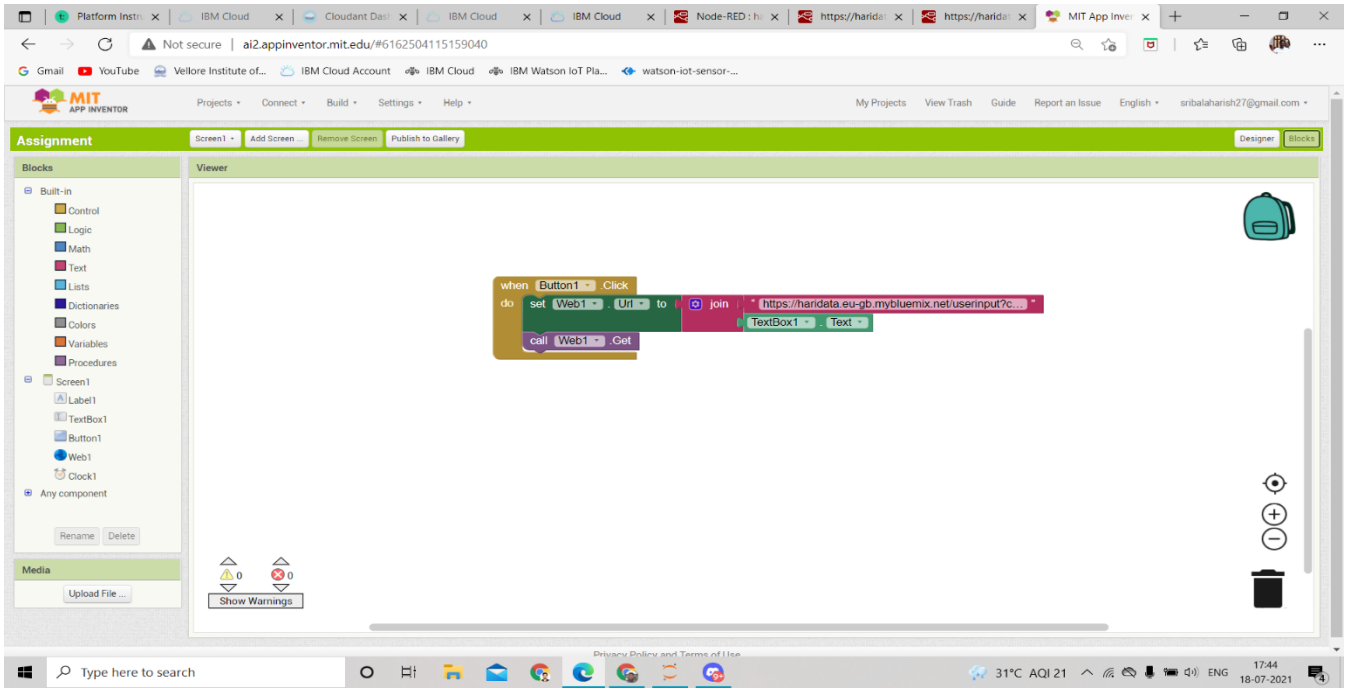
Nodered flow:



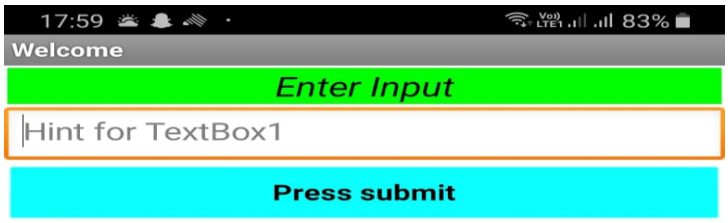
# MIT App Designer:

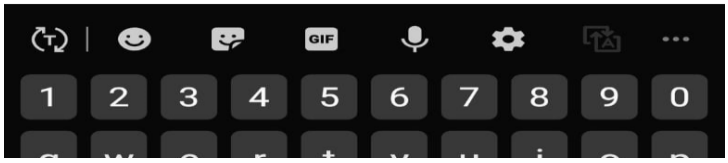



# MIT App Blocks:

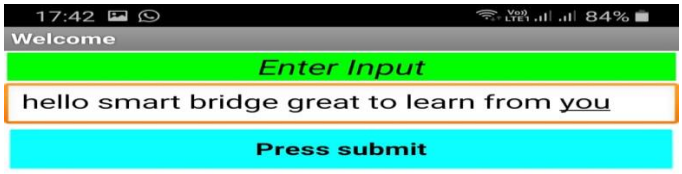


# Output:


17:59
83%
Welcome
Enter Input
Hint for TextBox1
Press submit

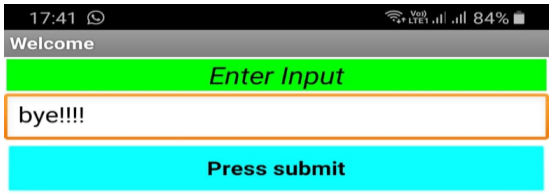

GIF
1 2 3 4 5 6 7 8 9 0

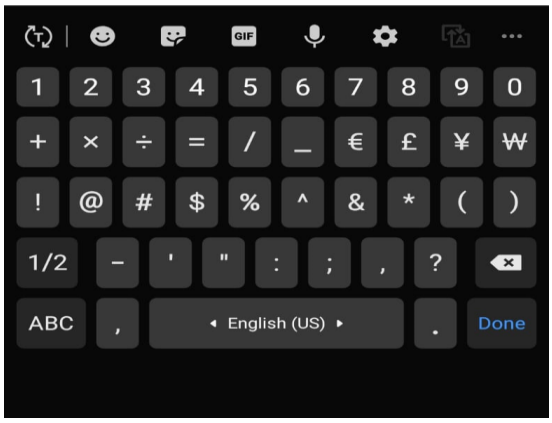

18:01
82%
Welcome
Enter Input
hi myself Bala Harish
Press submit


17:42
84%
Welcome
Enter Input
hello smart bridge great to learn from you
Press submit


Harish
HarishPendyala
Harish1
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
!#1
English (US)
Done


you
your
yours
1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
!#1
English (US)
Done




# Python shell output:

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

```
2021-07-18 17:40:18,313   wiotp.sdk.device.client.DeviceClient  INFO    Connected successfully: d:aannkh:VITharish:12345

Message received from IBM IoT Platform: hi myself Bala Harish
Message received from IBM IoT Platform: hello smart bridge great to learn from you
Message received from IBM IoT Platform: bye!!!!
Message received from IBM IoT Platform: hi myself Bala Harish
Message received from IBM IoT Platform: hello smart bridge great to learn from you
```

# Node red debug: