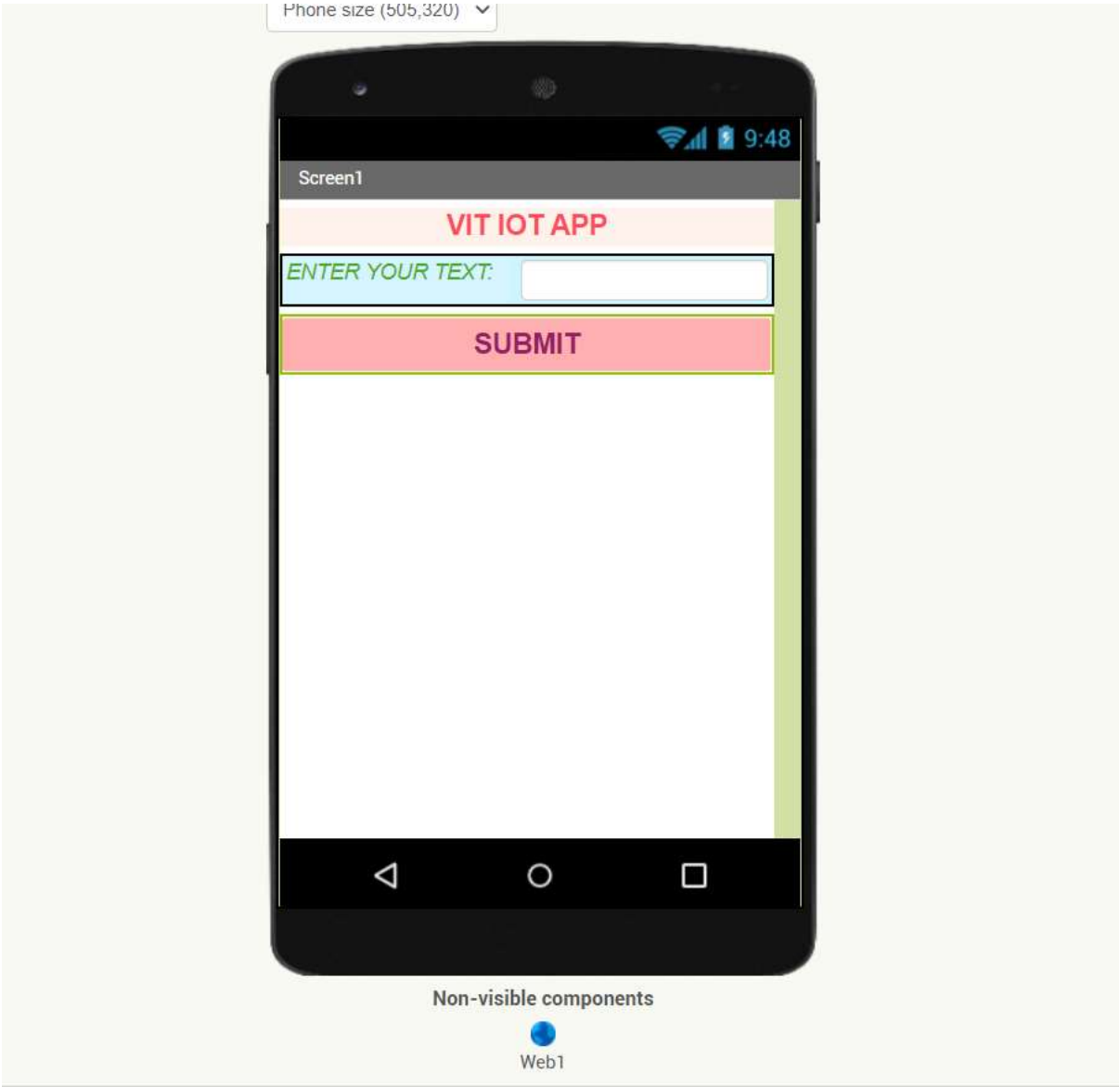
4. Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.
Keep a text box to accept the user input.integrate a submit button.
whenever user enters the text input in text box and clicks the button the data should be sent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

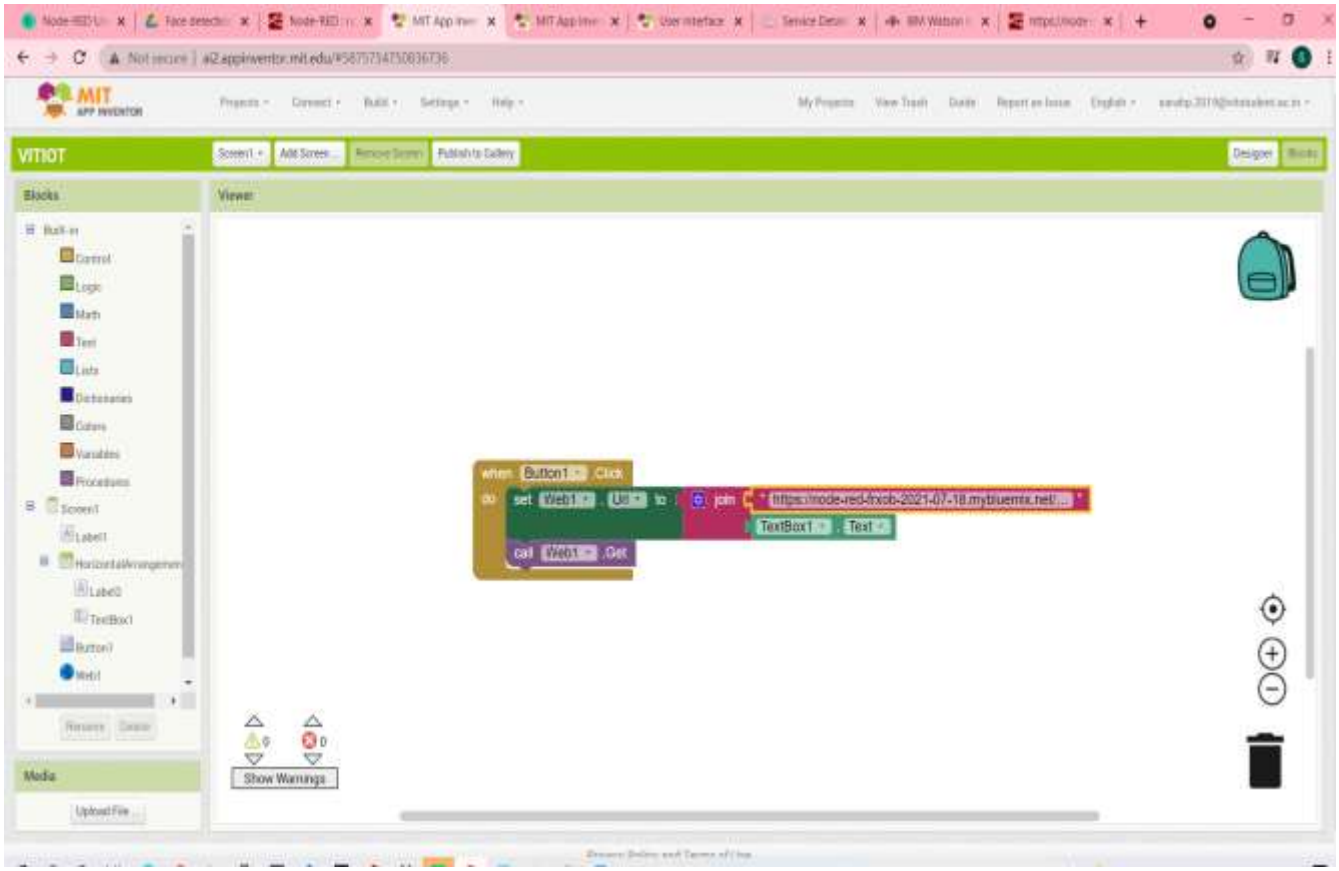
CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "glif1g",
        "typeId": "sarahdevice",
        "deviceId":"060801"
    },
    "auth": {
        "token": "06082001"
    }
}

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()
```

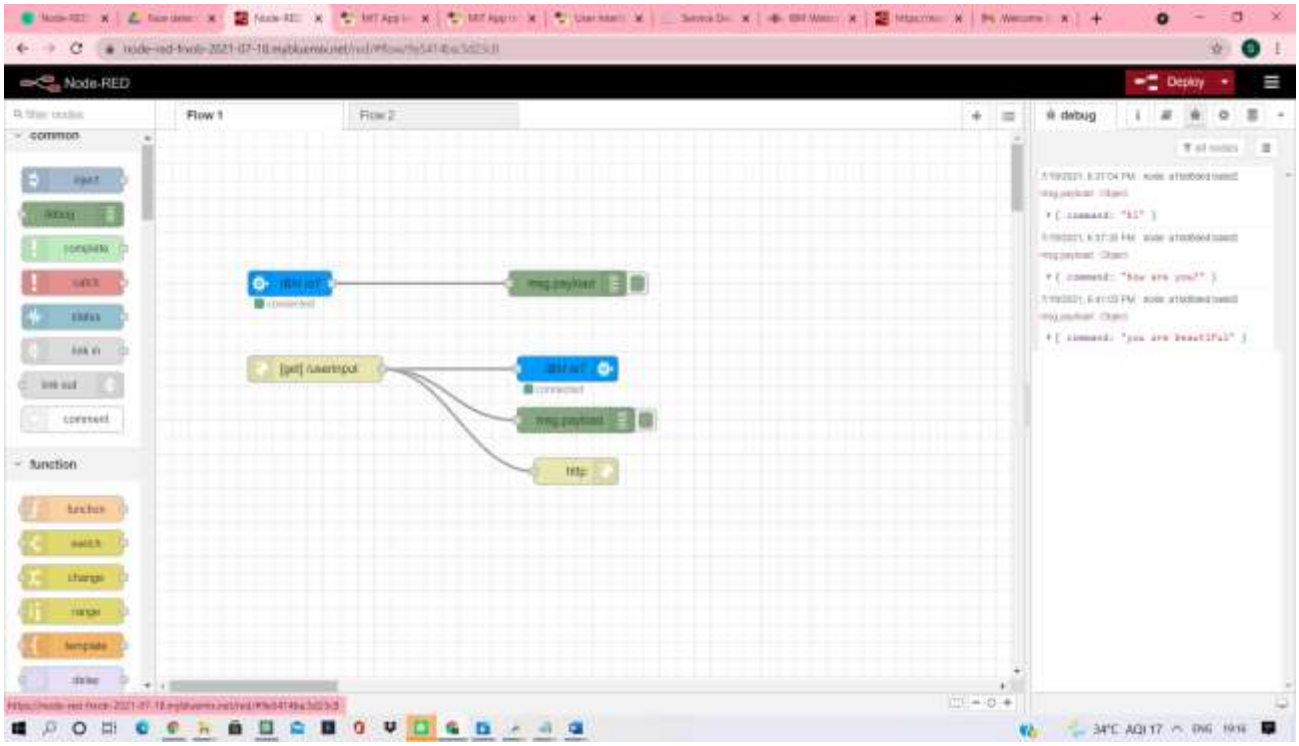
APPLICATION UI:



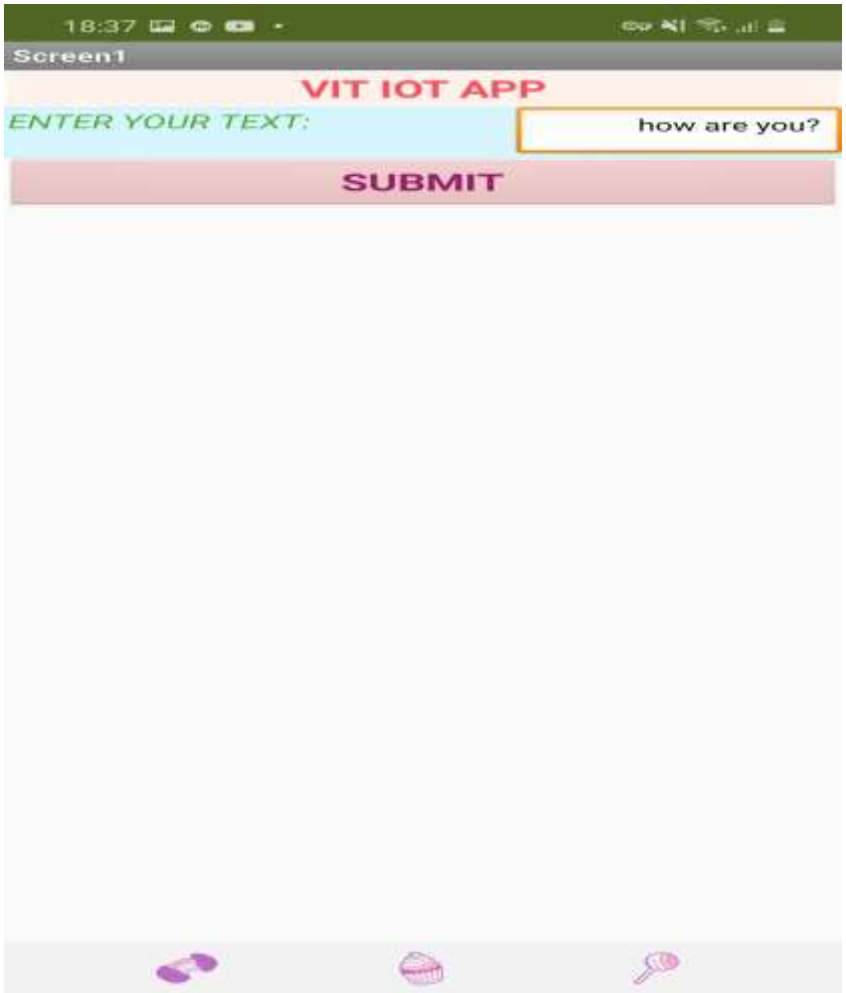
BLOCKS TO FUNCTION THE ABOVE UI:



Node-Red FLOW THAT CONNECTS THE IBMIoT WITH THE APPLICATION



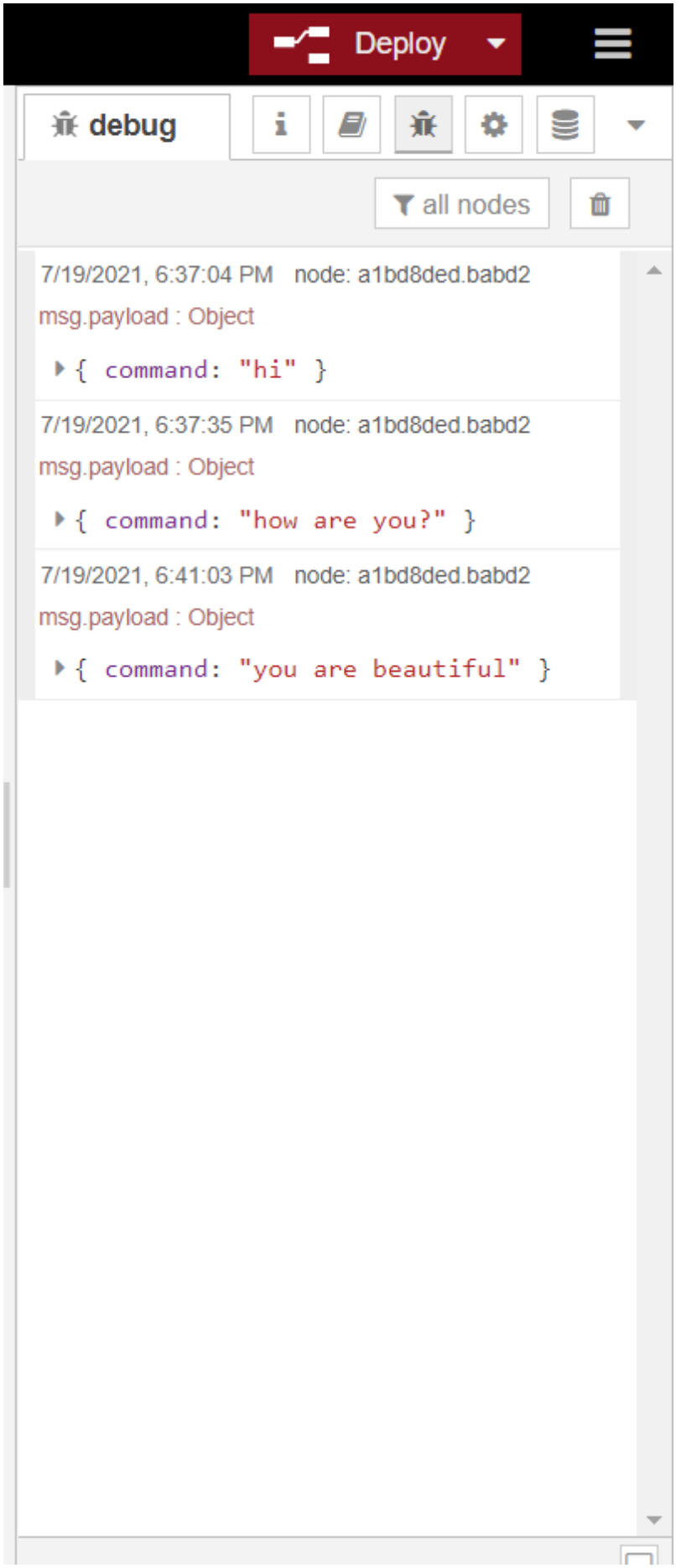
INPUT THROUGH APP


18:37
Screen1
VIT IOT APP
ENTER YOUR TEXT:
how are you?
SUBMIT


18:41
Screen1
VIT IOT APP
ENTER YOUR TEXT:
you are beautiful
SUBMIT

OUTPUT:

Node-Red DEBUG SCREEN:


Deploy
debug
all nodes
7/19/2021, 6:37:04 PM node: a1bd8ded.babd2
msg.payload : Object
{ command: "hi" }
7/19/2021, 6:37:35 PM node: a1bd8ded.babd2
msg.payload : Object
{ command: "how are you?" }
7/19/2021, 6:41:03 PM node: a1bd8ded.babd2
msg.payload : Object
{ command: "you are beautiful" }