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VIT-IOT-INDUSTRY CERTIFICATE-EXTERNSHIP PROGRAM

ASSIGNMENT-4

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:

Assignment 4.py - D:/Assignment 4/Assignment 4.py (3.9.6)

File Edit Format Run Options Window Help

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "rxdn0x",
        "typeId": "Soujanya",
        "deviceId":"12345"
    },
    "auth": {
        "token": "123456789"
    }
}

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()
```

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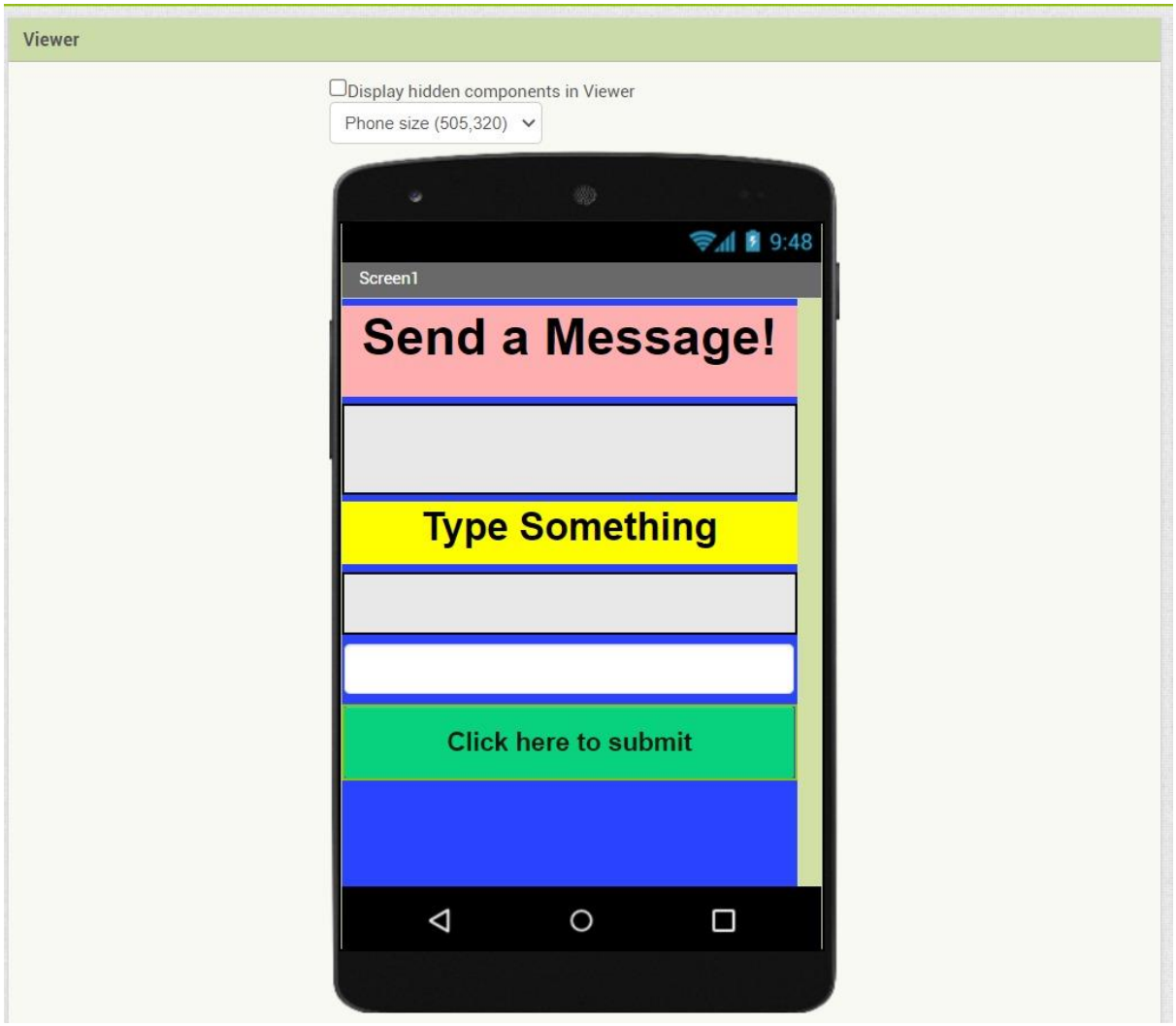
APPLICATION UI:



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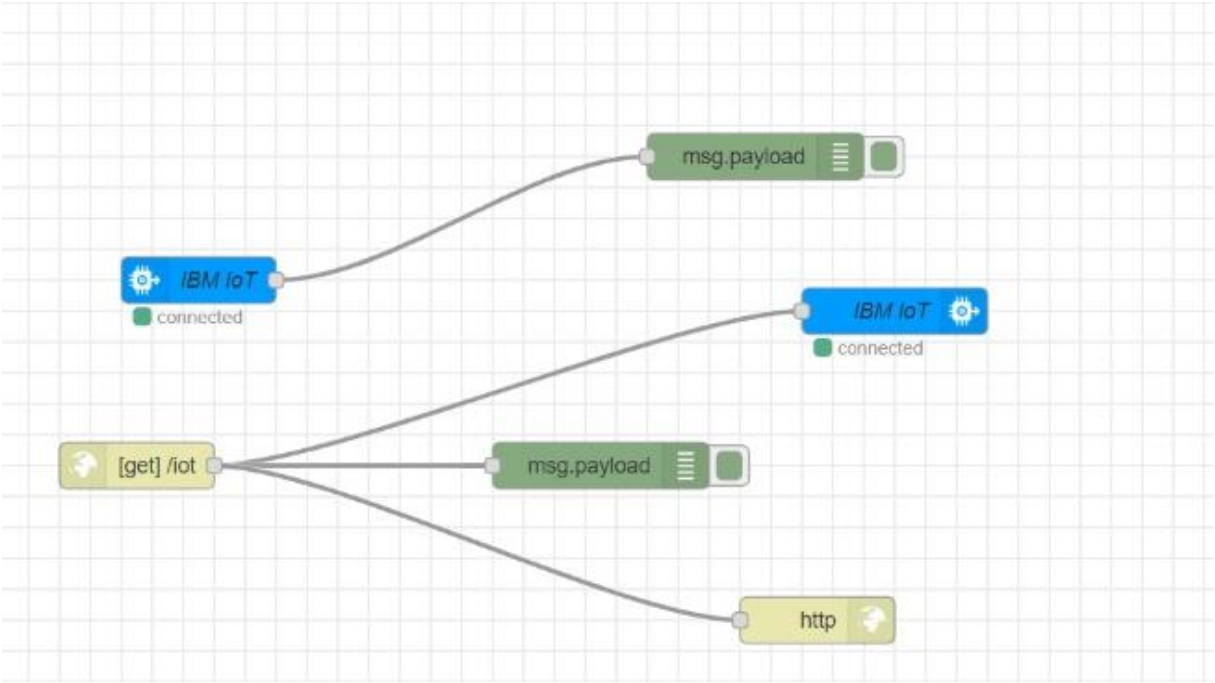
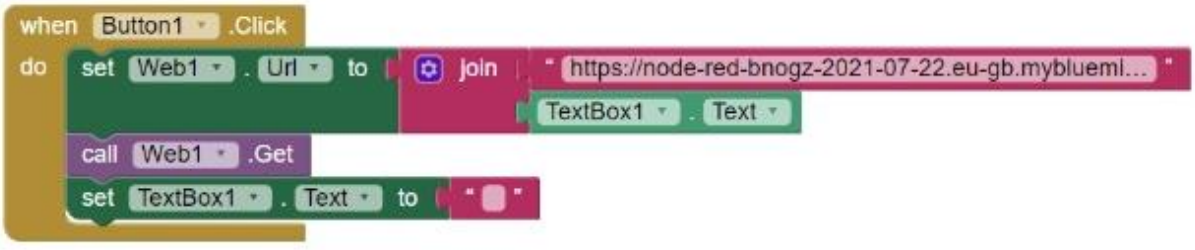
NODE-RED FLOW:



UI BLOCK LOGIC:



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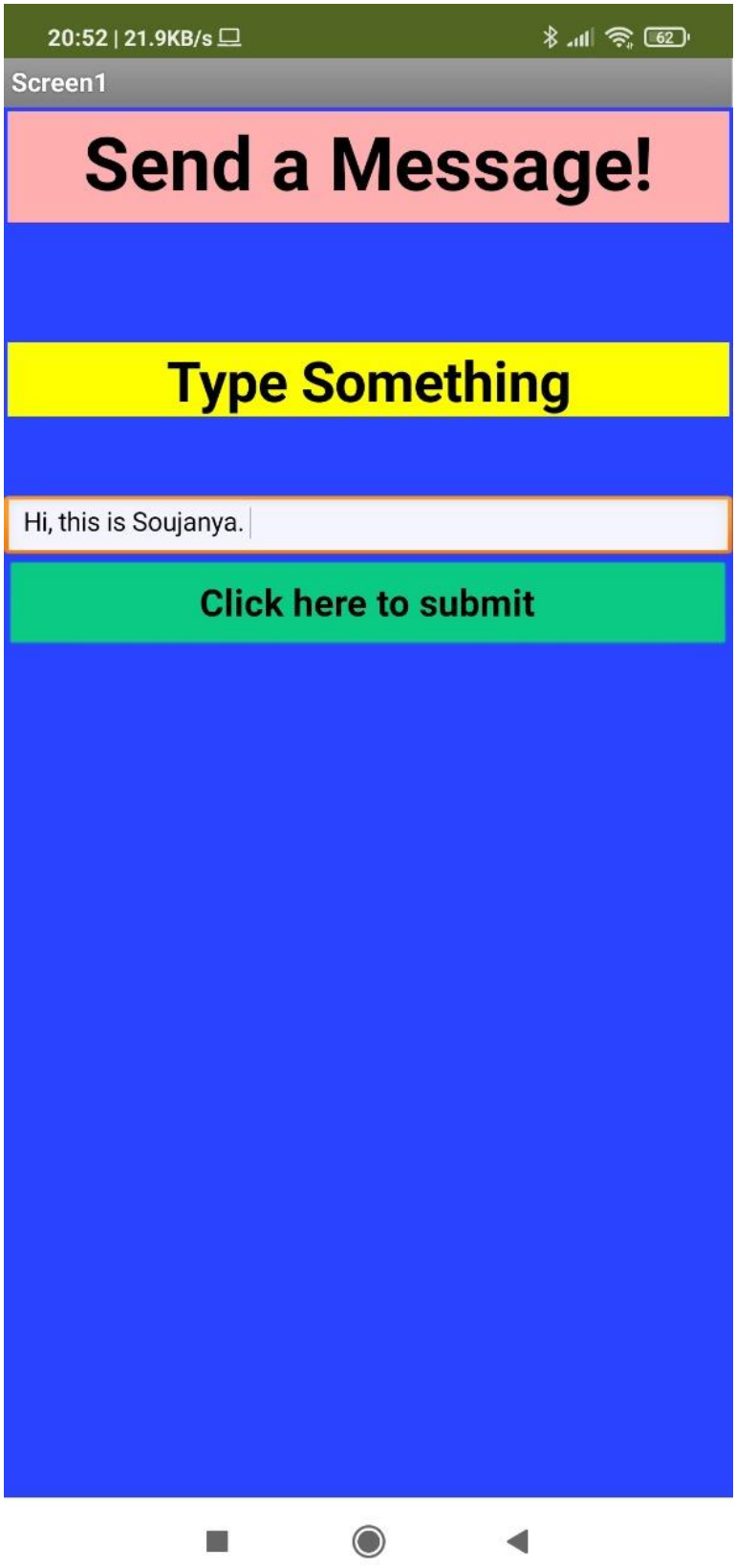
USER INPUT:



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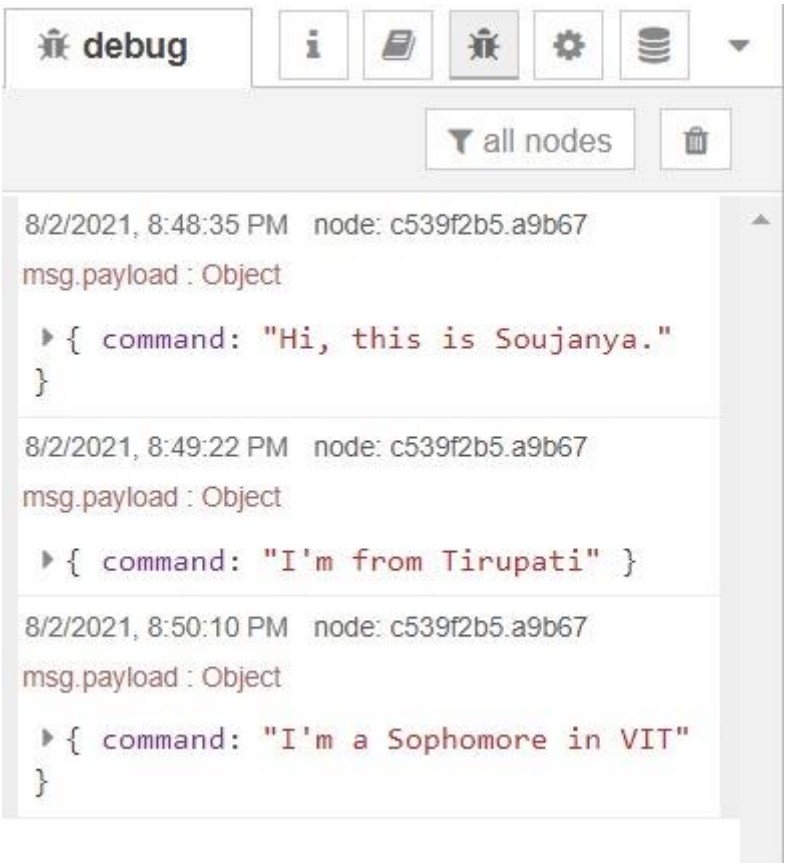
DATA RECEIVED:



PYTHON SHELL:

```
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: D:\SMART INTERNZ\Assignments\Assignment 4\Assignment4-code.py ====
2021-08-02 20:54:14,188   wiotp.sdk.device.client.DeviceClient  INFO    Connecte
d successfully: d:cvtwoa:Device1:mydev123
Message received from IBM IoT Platform: Hi, this is Soujanya
Message received from IBM IoT Platform: I'm from Tirupati
Message received from IBM IoT Platform: I'm a Sophomore in VIT
```