VIT SMART BRIDGE IOT EXTERNSHIP

K. Viswanath Naveen
viswanathnaveen3@gmail.com

Assignment 4:

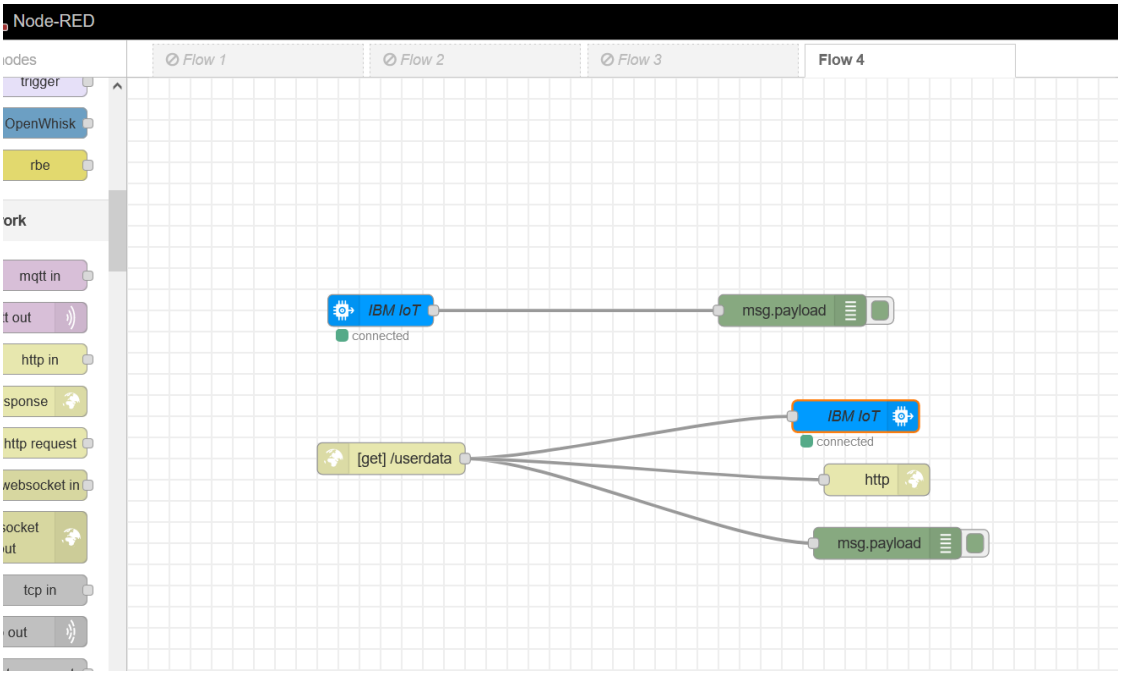
Topic:

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).

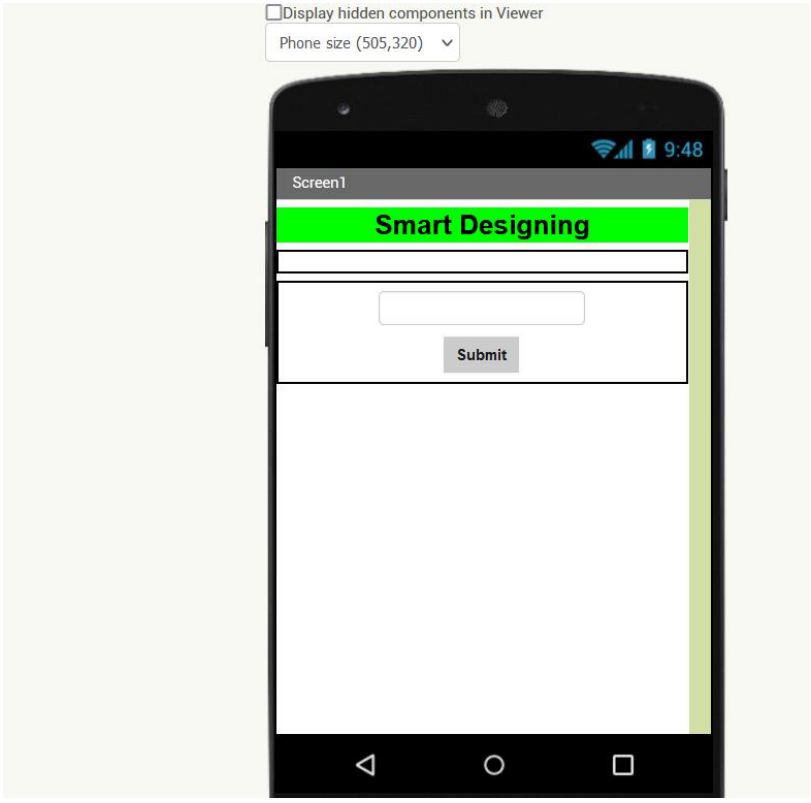
Python Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "cxkx1i",
        "typeId": "MyCloud",
        "deviceId":"1"
    },
    "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()
```

Node Red flow:



Mobile Application Design:



Output:

```
========== RESTART: E:/Python learing/ibmmob.py ==========
2021-07-18 19:50:50,427   wiotp.sdk.device.client.DeviceClient  INFO    Connecte
d successfully: d:cxkx1i:MySmart:2
Message Recieved from IBM IOT Platform:hello hi
Message Recieved from IBM IOT Platform:naveen
```