VIT-IOT-INDUSTRY CERTIFICATE-EXTERNSHIP PROGRAM

ASSIGNMENT-4

Q. 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).

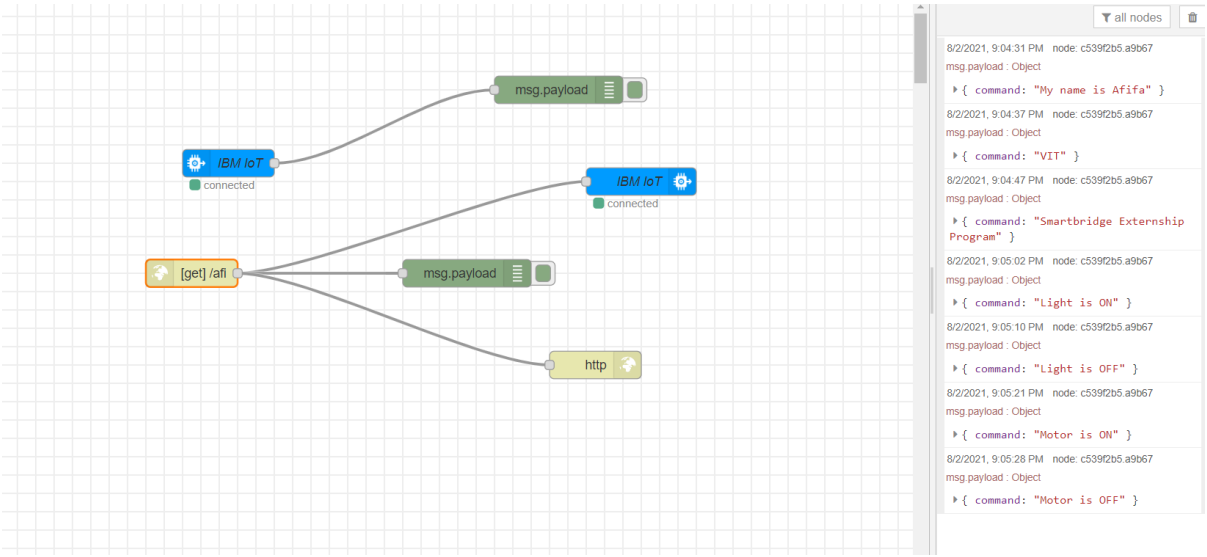
Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ml9y3s",
        "typeId": "afifadevice”
        "deviceId":"12345"
    },
    "auth": {
        "token": "123456789"
    }
}


def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
    m=cmd.data['command']
```

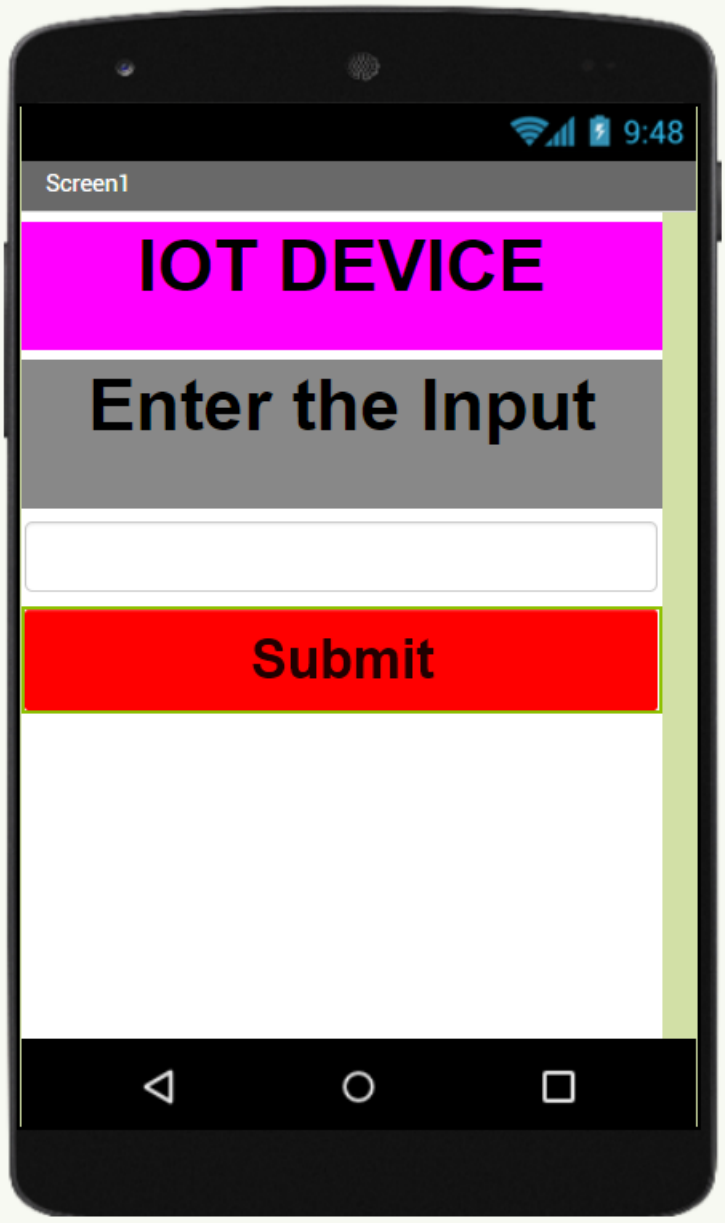
```
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()

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

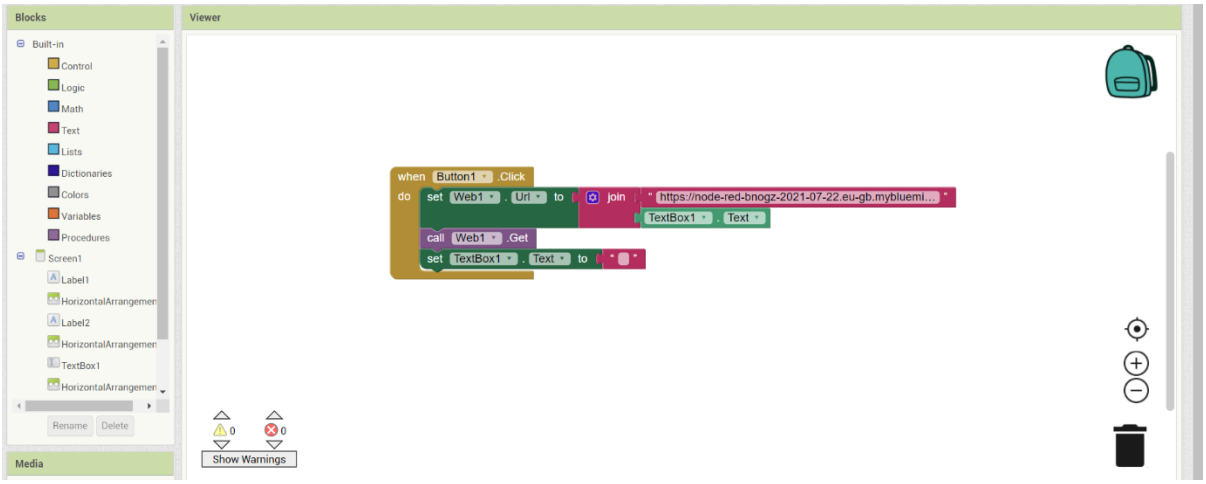


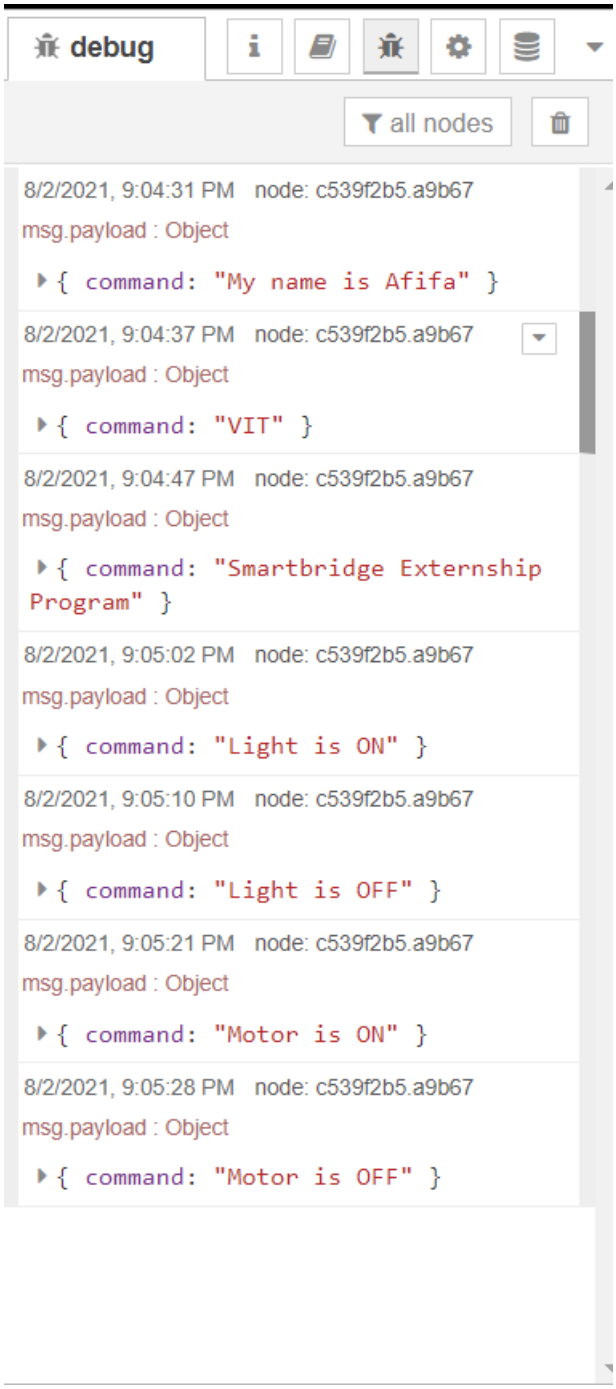
Display hidden components in Viewer

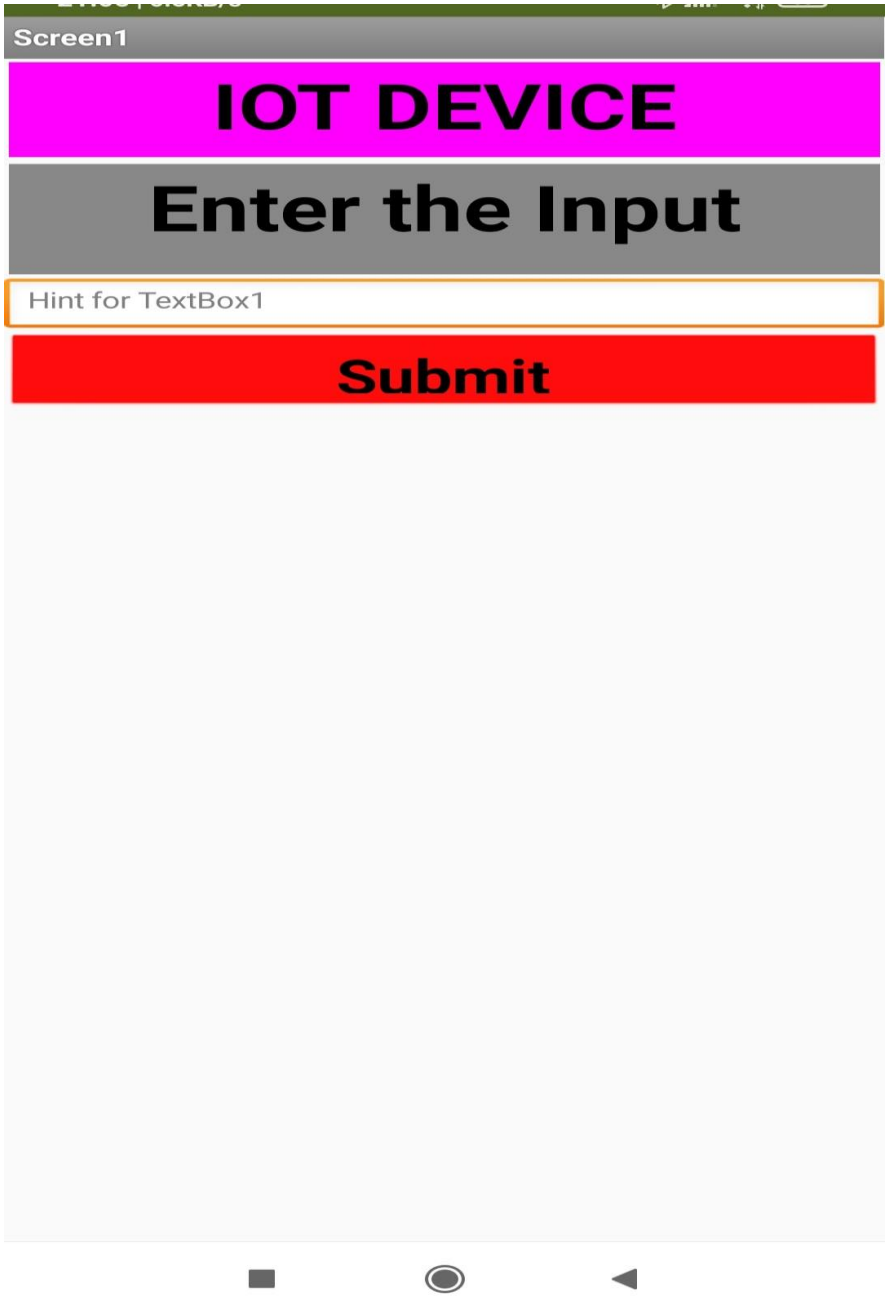
Phone size (505,320)

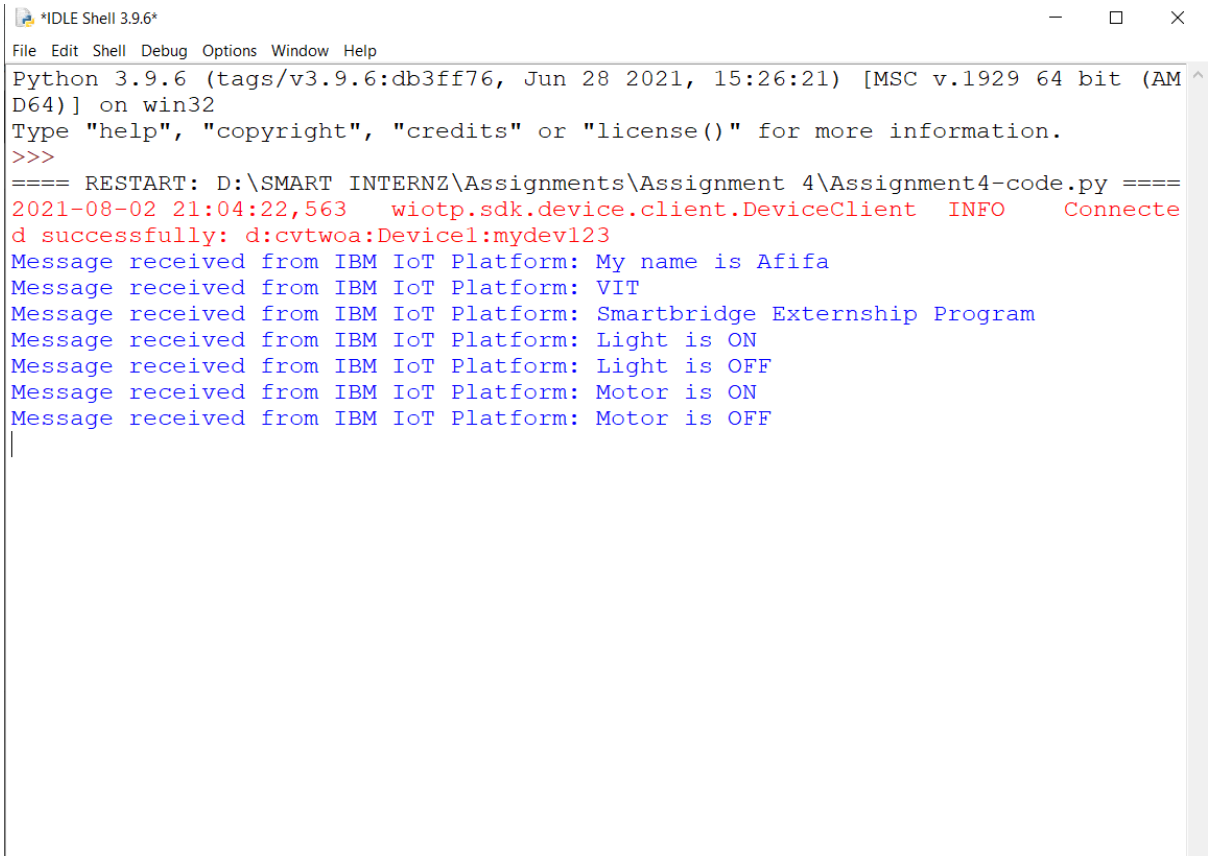


Non-visible components


Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
Label1
HorizontalArrangemen
Label2
HorizontalArrangemen
TextBox1
HorizontalArrangemen
Rename
Delete
Media
Viewer
when Button1 .Click
do set Web1 . Url to join "https://node-red-bnogz-2021-07-22.eu-gb.mybluemi..."
TextBox1 . Text
call Web1 .Get
set TextBox1 . Text to ""
0
0
Show Warnings


debug
all nodes
8/2/2021, 9:04:31 PM node: c539f2b5.a9b67
msg.payload : Object
{ command: "My name is Afifa" }
8/2/2021, 9:04:37 PM node: c539f2b5.a9b67
msg.payload : Object
{ command: "VIT" }
8/2/2021, 9:04:47 PM node: c539f2b5.a9b67
msg.payload : Object
{ command: "Smartbridge Externship Program" }
8/2/2021, 9:05:02 PM node: c539f2b5.a9b67
msg.payload : Object
{ command: "Light is ON" }
8/2/2021, 9:05:10 PM node: c539f2b5.a9b67
msg.payload : Object
{ command: "Light is OFF" }
8/2/2021, 9:05:21 PM node: c539f2b5.a9b67
msg.payload : Object
{ command: "Motor is ON" }
8/2/2021, 9:05:28 PM node: c539f2b5.a9b67
msg.payload : Object
{ command: "Motor is OFF" }


Screen1
IOT DEVICE
Enter the Input
Hint for TextBox1
Submit


IDLE Shell 3.9.6
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 (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: D:\SMART INTERNZ\Assignments\Assignment 4\Assignment4-code.py ====
2021-08-02 21:04:22,563 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:cvtwoa:Device1:mydev123
Message received from IBM IoT Platform: My name is Afifa
Message received from IBM IoT Platform: VIT
Message received from IBM IoT Platform: Smartbridge Externship Program
Message received from IBM IoT Platform: Light is ON
Message received from IBM IoT Platform: Light is OFF
Message received from IBM IoT Platform: Motor is ON
Message received from IBM IoT Platform: Motor is OFF