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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).

PROGRAM CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "6q4wpb",
        "typeId": "VITDevice",
        "deviceId":"12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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

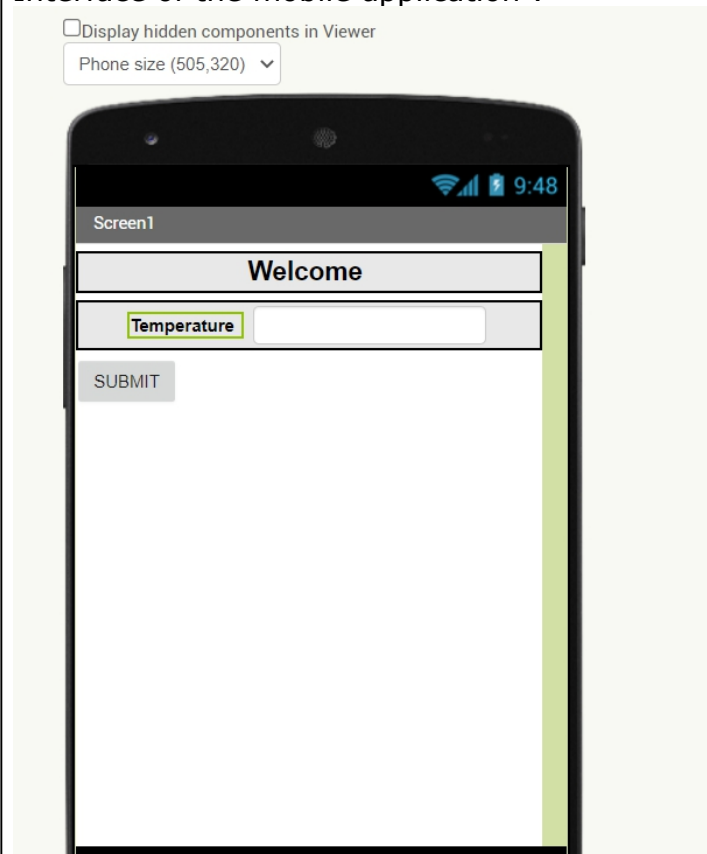
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()

while True:

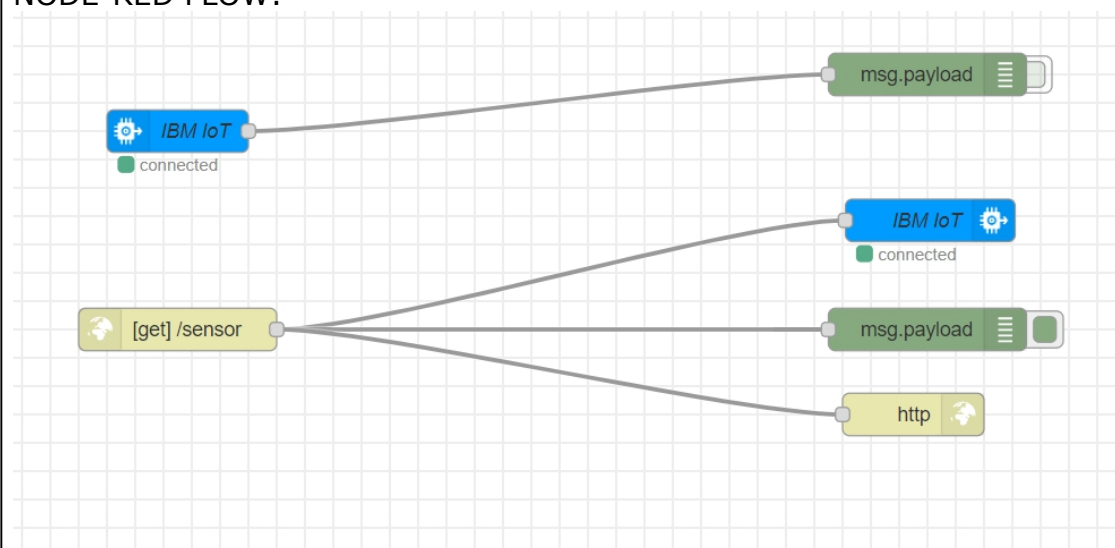
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

OUTPUT:

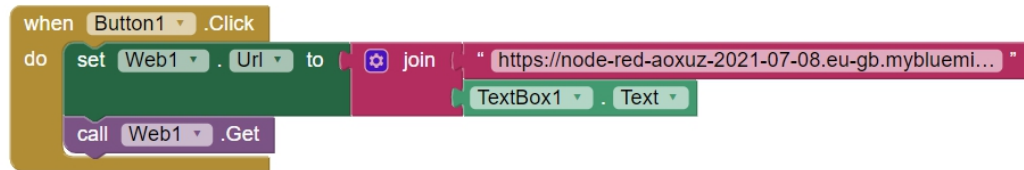
Interface of the mobile application :



NODE-RED FLOW:



MIT-APPLICATION-BACKEND:



DEBUG-OUTPUT:

7/18/2021, 11:24:25 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "50" }
```

7/18/2021, 11:26:01 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "50" }
```

7/18/2021, 11:32:27 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "hello" }
```

7/18/2021, 11:32:31 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "my" }
```

7/18/2021, 11:32:34 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "name" }
```

7/18/2021, 11:32:39 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "us" }
```

7/18/2021, 11:32:43 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "is" }
```

7/18/2021, 11:32:46 PM node: 4f104d27.53fdd4

msg.payload : Object

```
▶ { command: "vaikunth" }
```

PYTHON OUTPUT:

```
Python 3.9.5 (tags/v3.9.5:0a7dcdb, May 3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\Narayanan\OneDrive\Desktop\smart_internz\creditianls_cmds\ibm_vit.py
2021-07-18 23:25:56,281    wiotp.sdk.device.client.DeviceClient    INFO    Connected successfully: d:6q4wpb:VITDevice:12345
Message received from IBM IoT Platform: 50
Message received from IBM IoT Platform: hello
Message received from IBM IoT Platform: my
Message received from IBM IoT Platform: name
Message received from IBM IoT Platform: us
Message received from IBM IoT Platform: is
Message received from IBM IoT Platform: vaikunth
```