

#### 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).**

**DEEPAK.MM**

#### **CODE**

```
import wiotp.sdk.device  
import time  
import random  
myConfig = {  
    "identity": {  
        "orgId": "f6qz98",  
        "typeId": "vimal",  
        "deviceId":"29112001"  
    },  
    "auth": {  
        "token": "29241106"  
    }  
}
```

```

def myCommandCallback(cmd):

    print("Message received from IBM IoT Platform: %s" %
cmd.data['input'])

    print()


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

client.connect()


while True:

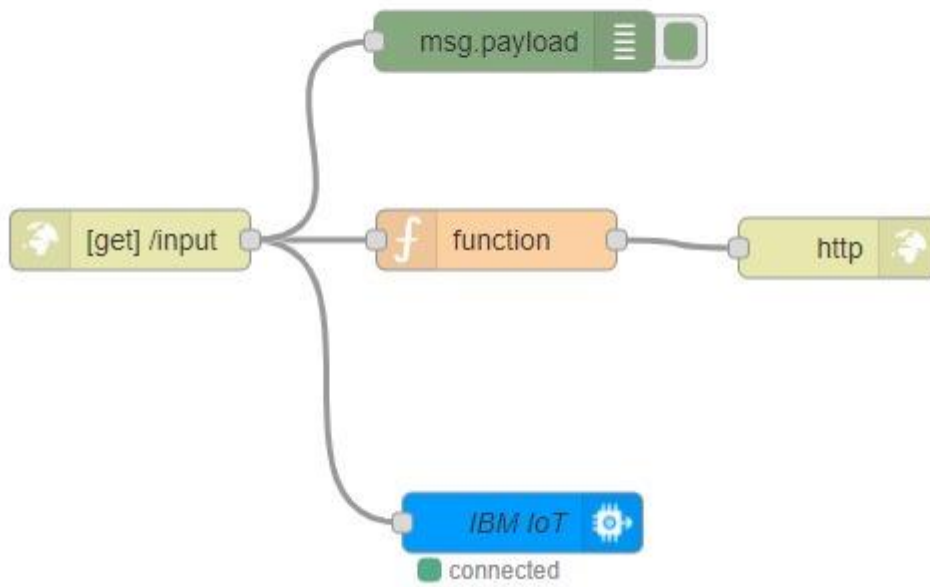
    client.commandCallback = myCommandCallback

    time.sleep(2)

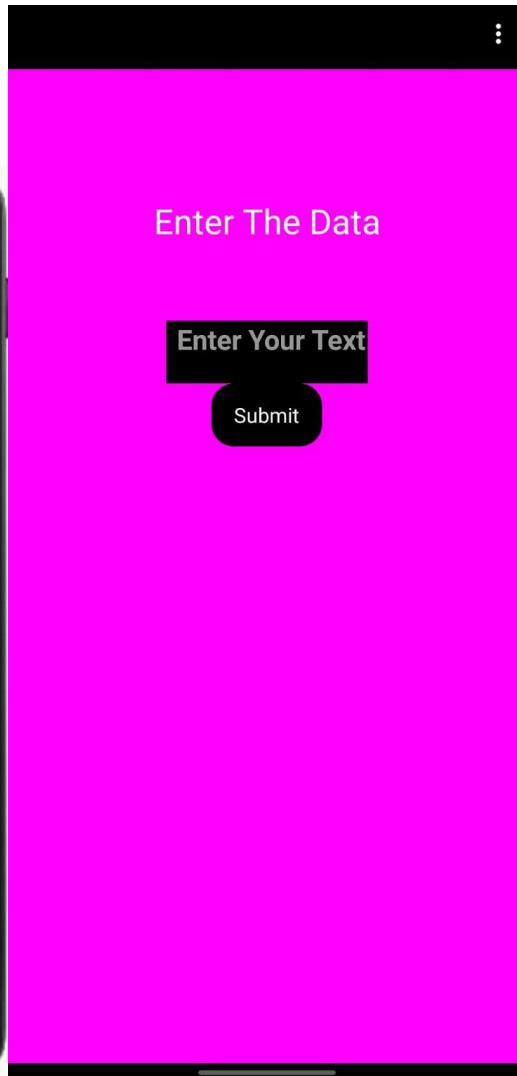
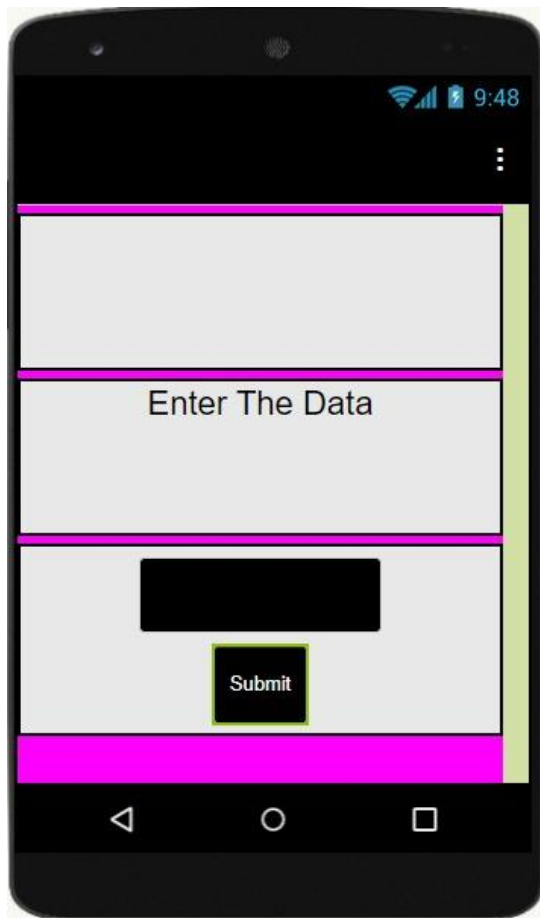
client.disconnect()

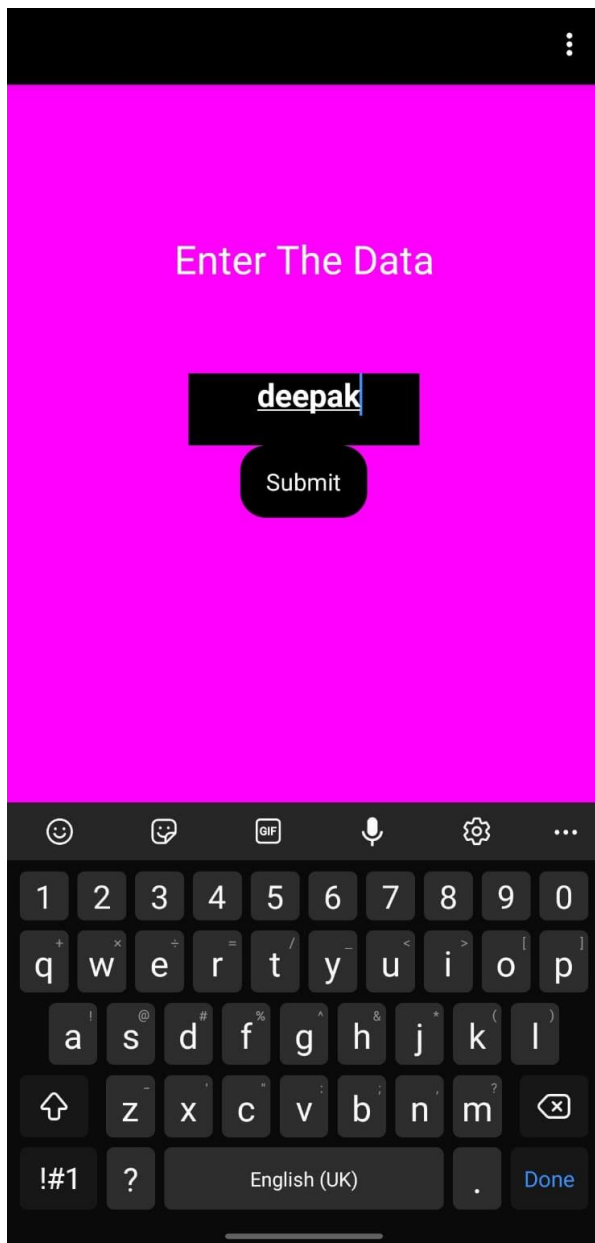
```

NODE RED SCREENSHOT:



MOBILE CONSTRUCTION:





APPLICATION LOOK:

NODE-RED OUTPUT:

```
7/19/2021, 6:45:00 PM  node: a16183f5.6bacd  
msg.payload : Object  
  ▶ { input: "deepak" }
```

```

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: C:\Users\rsvim\AppData\Local\Programs\Python\Python39\code\Assignment-4.py
2021-07-19 18:45:29,342    wiotp.sdk.device.client.DeviceClient INFO    Connected successfully: d:f6qz98:vimal:29112001
Message received from IBM IoT Platform: deepak

```

## PYTHON CODE:

```

File Edit Format Run Options Window Help
import time
import random
myConfig = {
    "identity": {
        "orgId": "h35fmy",
        "typeId": "NodeMCU",
        "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:
    temper=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temper, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

```