

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).

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19BEE1045**

CODE

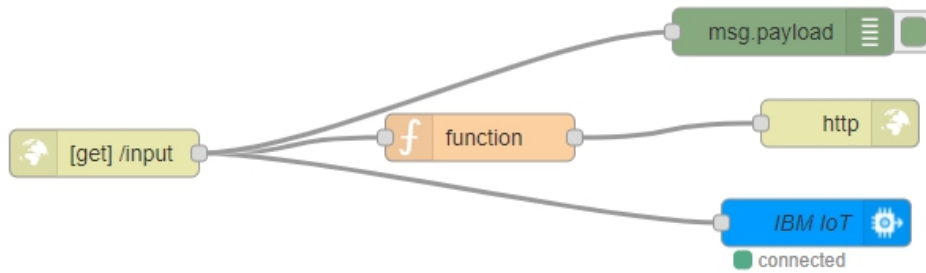
```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "f6qz98",
        "typeId": "vimal",
        "deviceId": "29112001"
    },
    "auth": {
        "token": "29241106"
    }
}

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

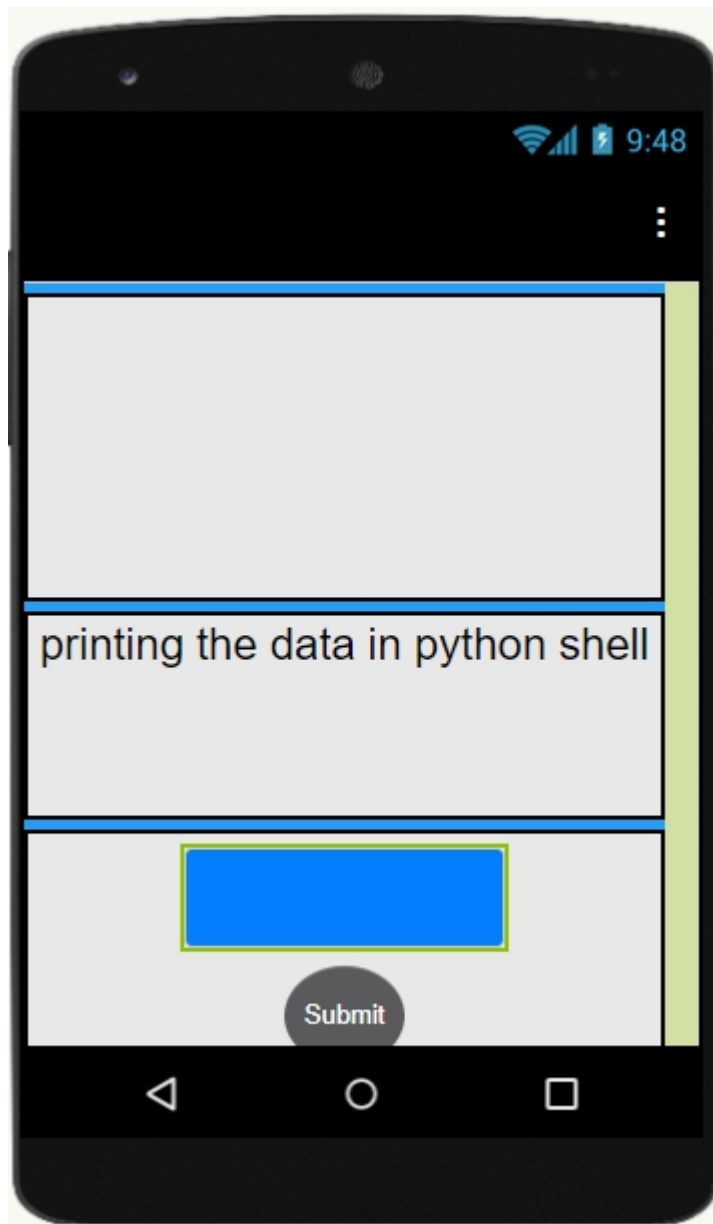
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()

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

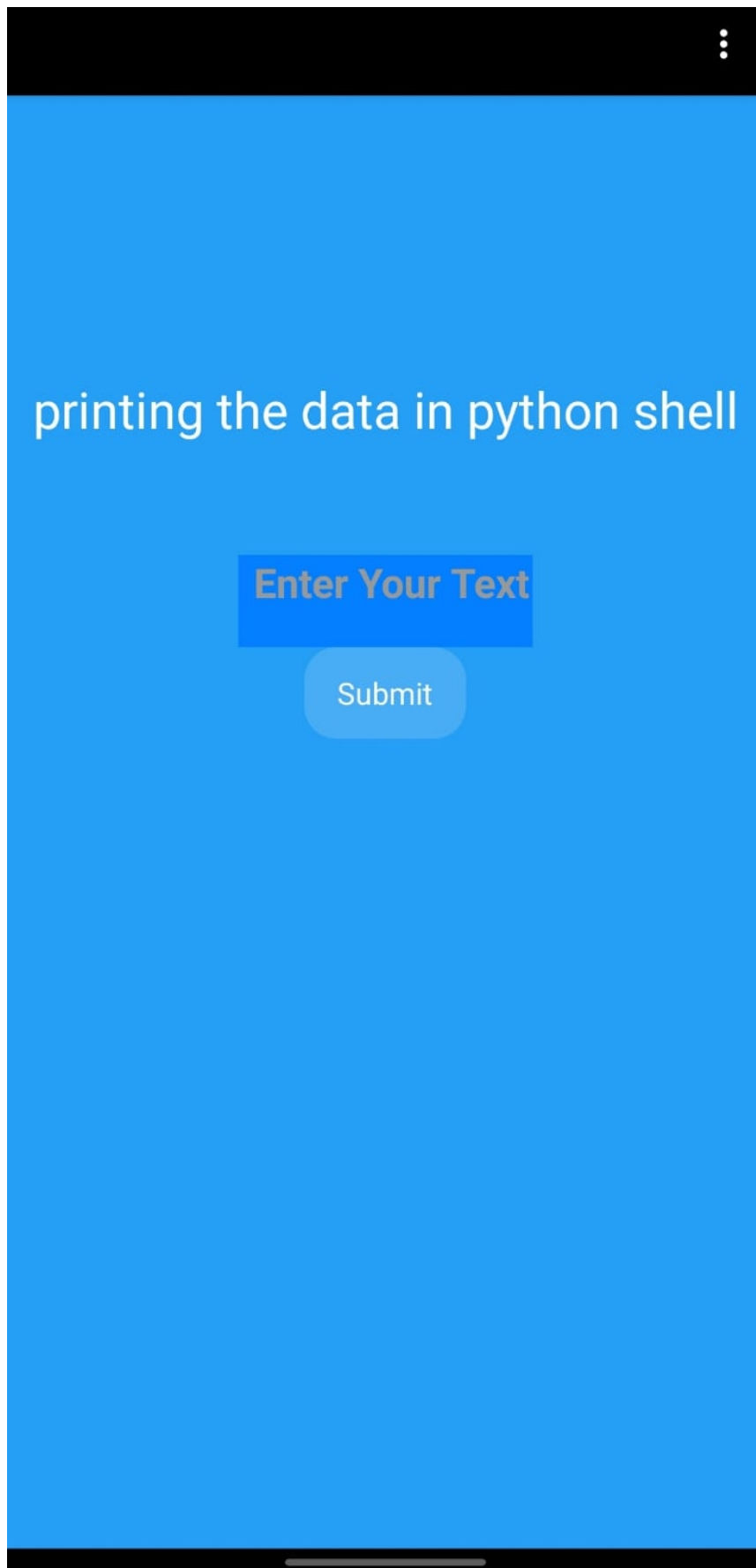
NODE-RED SCREENSHOT



CONSTRUCTED APPLICATION



APPLICATION LOOK





printing the data in python shell

vimal

Submit



1

2

3

4

5

6

7

8

9

0

q

w

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j

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l



z

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c

v

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m

?



!#1

?

English (UK)

.

Done

NODE-RED OUTPUT

```
7/18/2021, 8:09:38 PM node: a16183f5.6bacd
msg.payload : Object
▶ { input: "vimal" }
```

PYTHON OUTPUT

```
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()
```

```
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
2021-07-18 20:03:42,075 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:f6qz98:vimal:29112001
Message received from IBM IoT Platform: vimal
```