

VIT EXTERNSHIP GUIDED PROJECTS

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Assignment No: 4

Question: 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).

Answer:

Python Code:

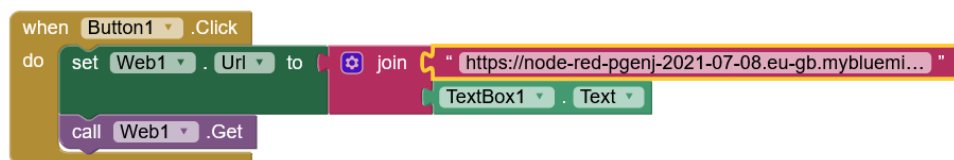
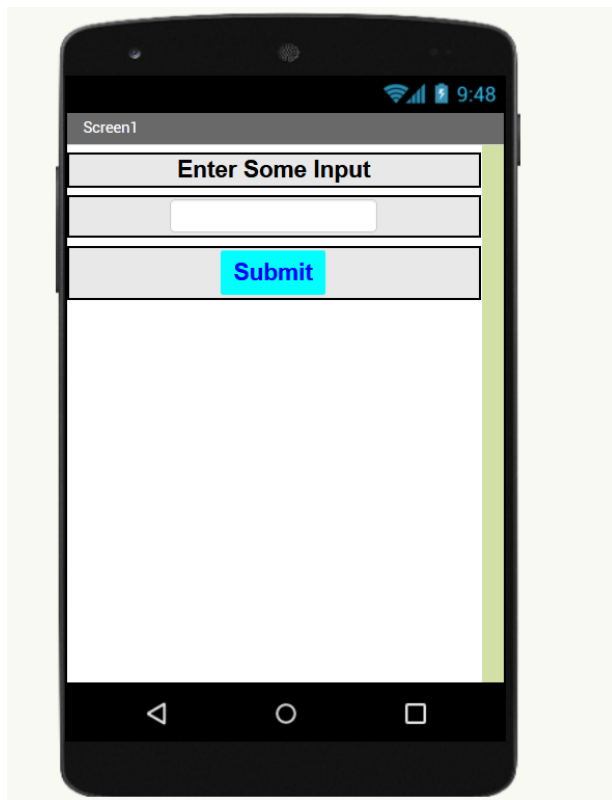
```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "0iu3oj",
        "typeId": "IOT",
        "deviceId": "1234"
    },
    "auth": {
        "token": "12345678"
    }
}

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

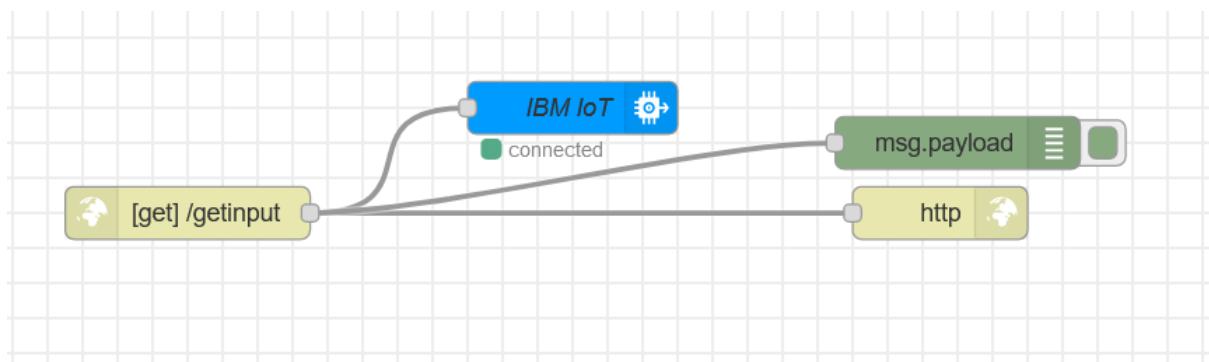
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

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

APP Screenshot:



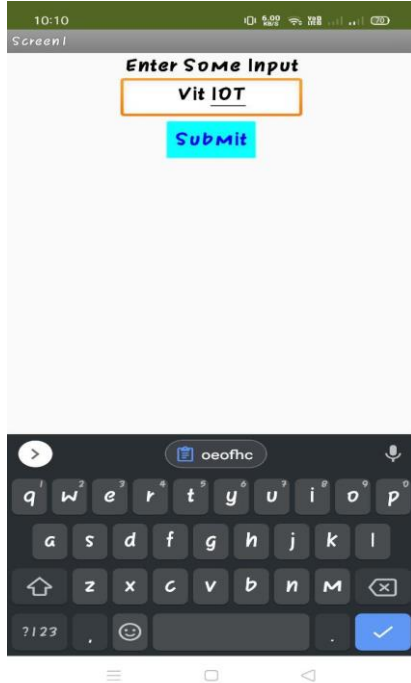
Node Red Screenshot:



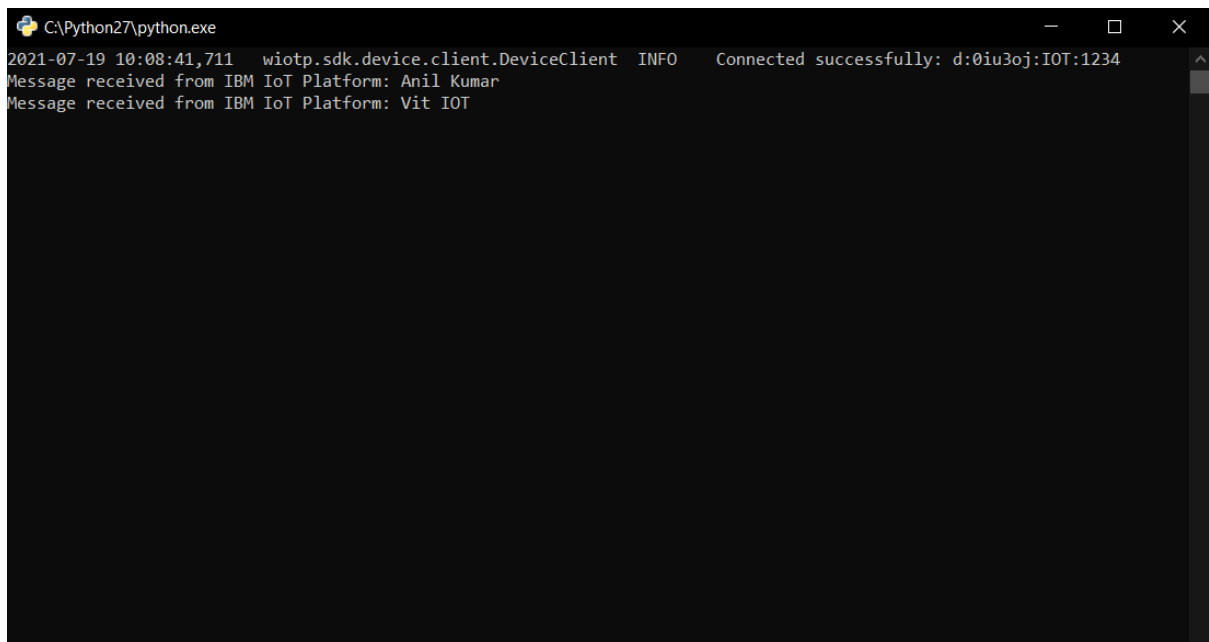
Link I have used to get input:

<https://noderedpgenj20210708.eugb.mybluemix.net/getinput?command=>

Entering Input in APP:



Output in Python:



Output in Node Red:

19/7/2021, 10:09:20 am node: db81eaa0.10a7f

msg.payload : Object

▶ { command: "Anil Kumar" }

19/7/2021, 10:09:49 am node: db81eaa0.10a7f

msg.payload : Object

▶ { command: "Vit IOT" }
