# VIT-IOT

# (INDUSTRY CERTIFICATE INTERNSHIP PROGRAM)

# ASSIGNMENT-4



**NAME:** GOPINATH K

**REG.NO.:** 19BEC10003

**MAIL ID:** gopinath.k2019@vitbhopal.ac.in

**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).**
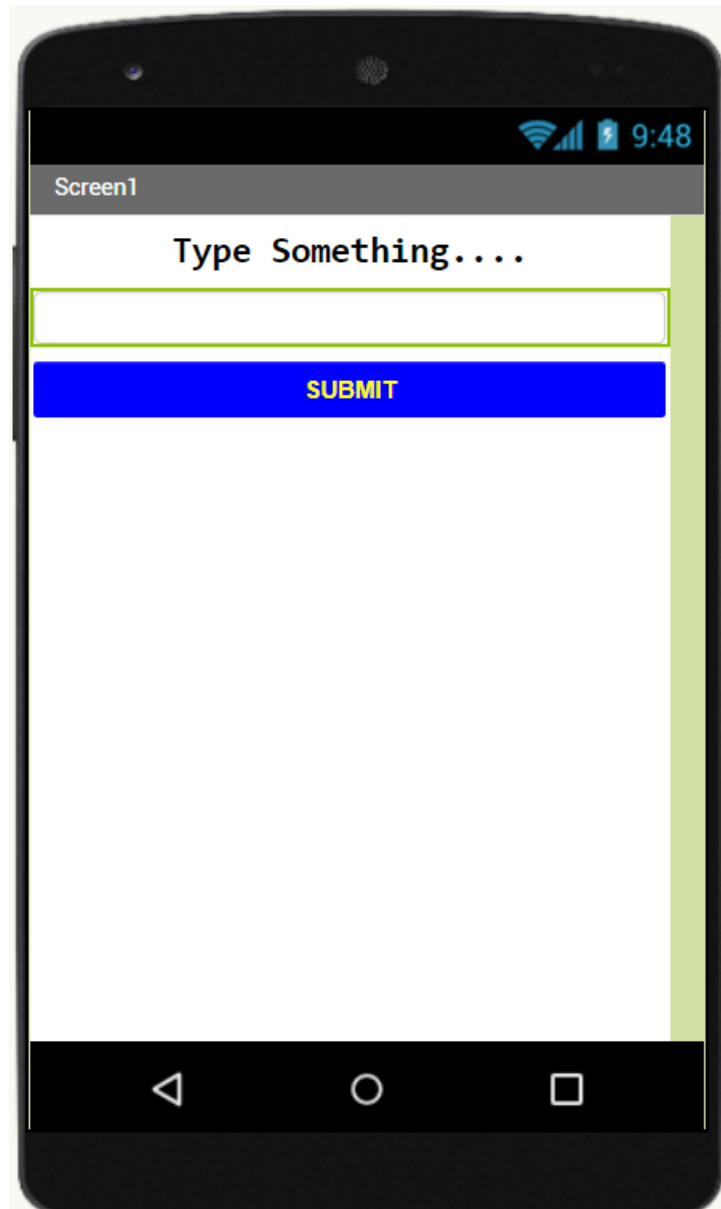
# PYTHON CODE:

```
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.
>>>
import wiotp.sdk.device
import time
import random
myConfig ={
        "identity": {
                "orgId": "d9cbnt",
                "typeId": "FirstDevice",
                "deviceId":"1752"
},
"auth": {
        "token":"Gopinath1752"
        }
}

def myCommandcallback (cmd):
        print("Message recieved from IBM IoT Platfornm: %s" % cmd.data['command'])
        #m=cma.data['Command']

client = wiotp.sdk.device.Deviceclient (config-myconfig, logHandlers=None)
client.connect()

while True:
        client.commandcallback = mycomnandcallback
        time.sleep (2)
        client.disconnect ()
```
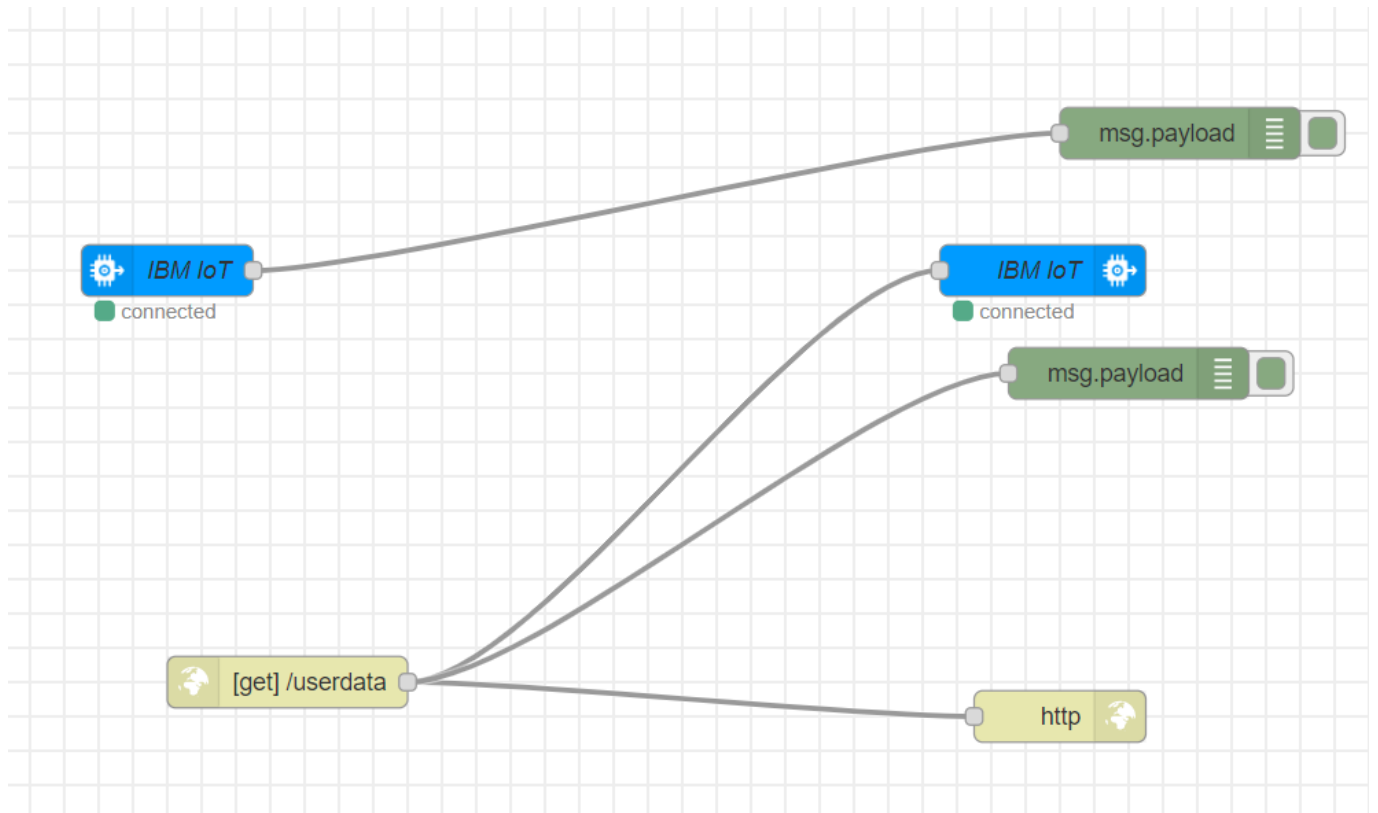
**Fig.1 Python code window**

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**Fig2. Application UI**

**Fig3.Node Red flow chart → In this The IBM IoT Node connects the Device with python code**

**Fig5: User Input given from mobile**

7/18/2021, 3:16:16 PM   node: 5a87d33a.ef0cdc

msg.payload : Object

▶ { command : " hello world" }

7/18/2021, 3:16:17 PM   node: e92d61ae.a9c68

iot-2/type/FirstDevice/id/14831/cmd/cmd/fmt/json :

msg.payload : Object

▶ { command : " hello world" }

**Fig5: Data received successfully to the Node Red debug window**

RESTART: C:\Users\avina\Desktop\saivardhan\externship\assignment5.py
2021-07-18 15:21:31,430   wiotp.sdk.device.client.DeviceClient   INFO   Connecte
d successfully: d:d9cbnt:FirstDevice:14831
Message received from IBM IoT Platform: hello world
Message received from IBM IoT Platform: hello world

**Fig.6. Python shell of Reciving Data**