VIT SMART BRIDGE IOT EXTERNSHIP PROGRAM

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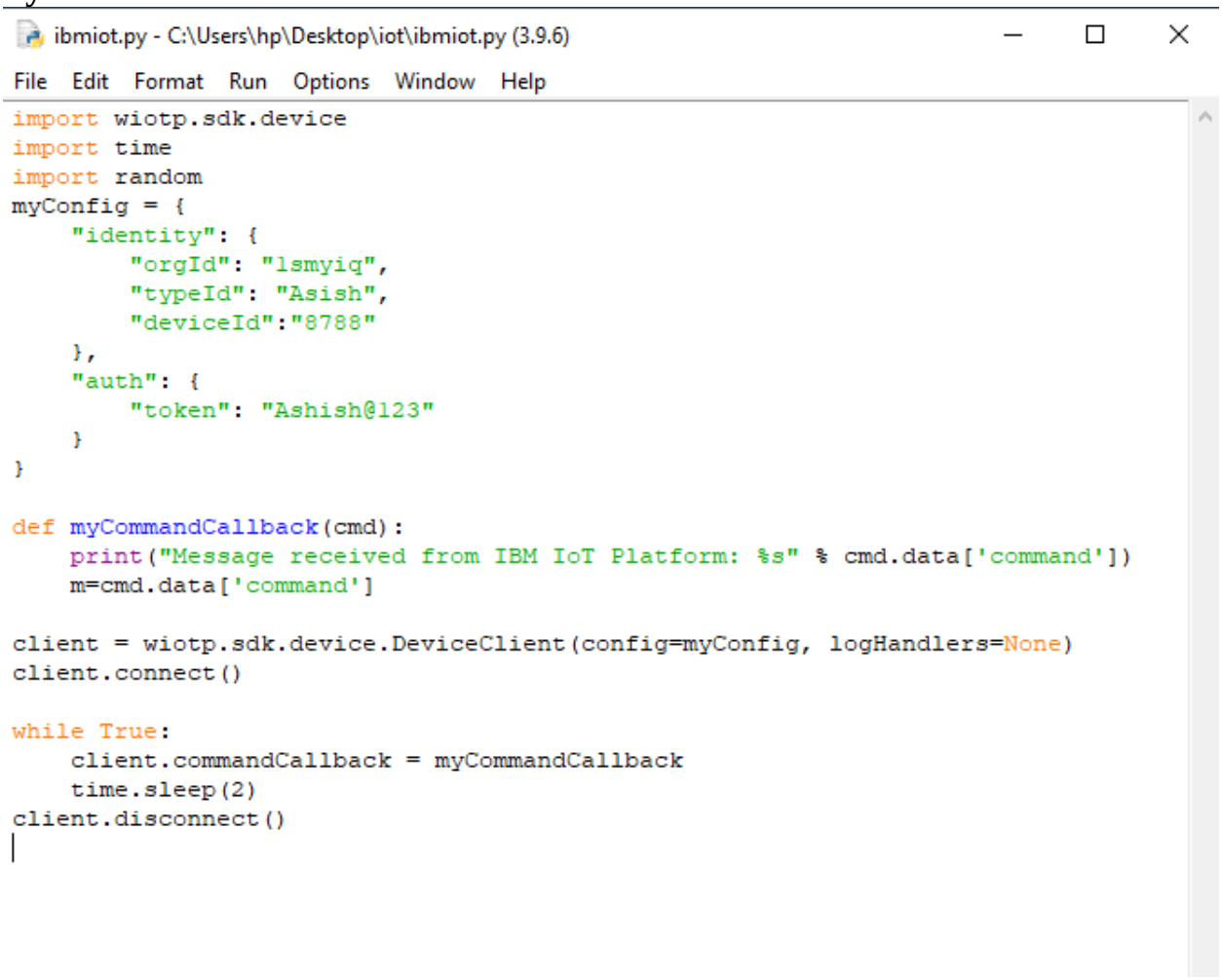
Assignment-4:

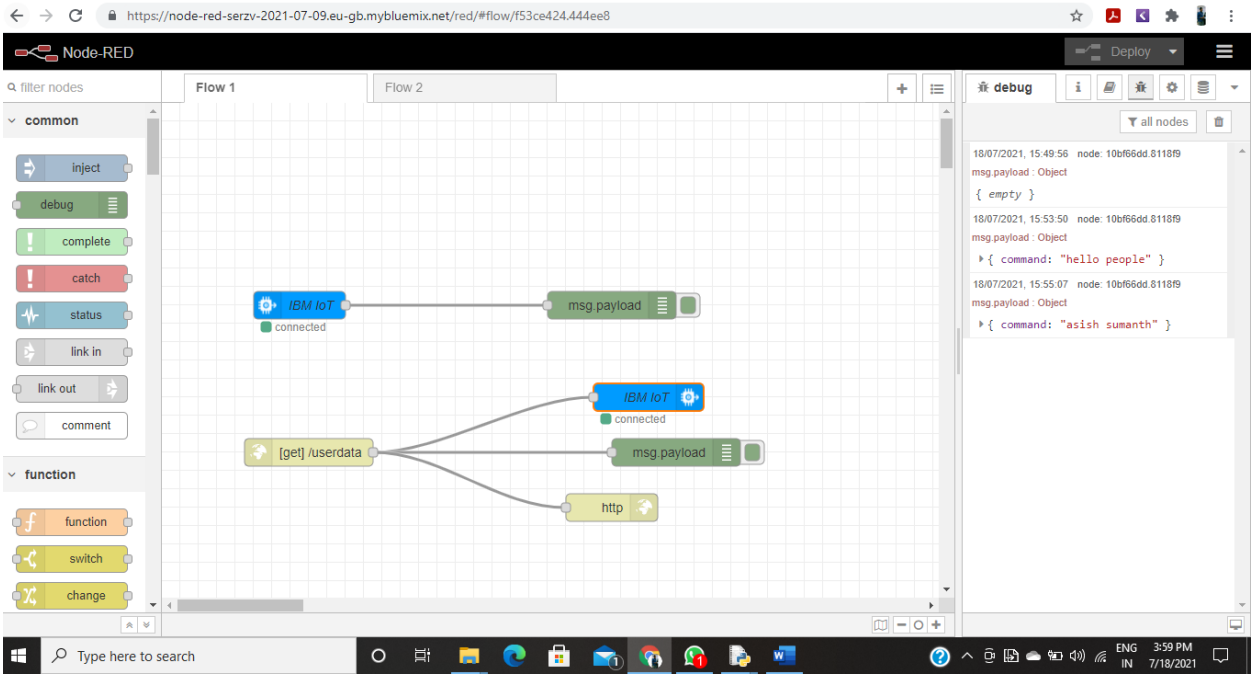
Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.Keep a text box to accept the user input.integrate a submit button.whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL(HTTP API).

Python code:

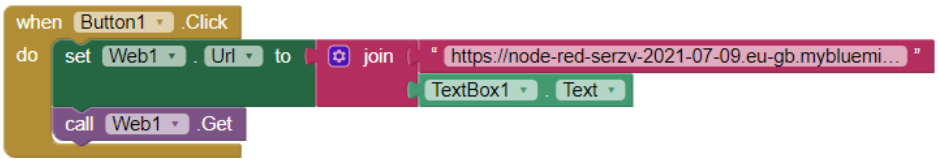


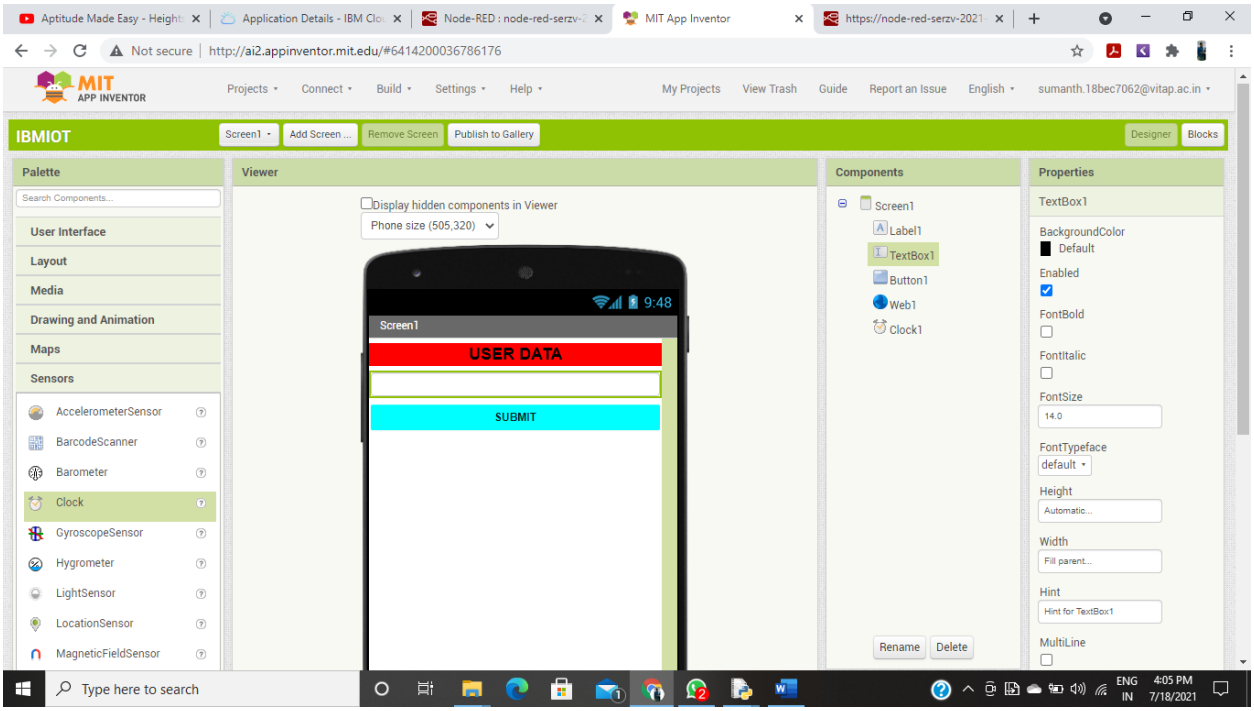
import wiotp.sdk.device
import time
import random

```
myConfig = {
    "identity": {
        "orgId": "1smyiq",
        "typeId": "Asish",
        "deviceId":"8788"
    },
    "auth": {
        "token": "Ashish@123"
    }
}

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()
```

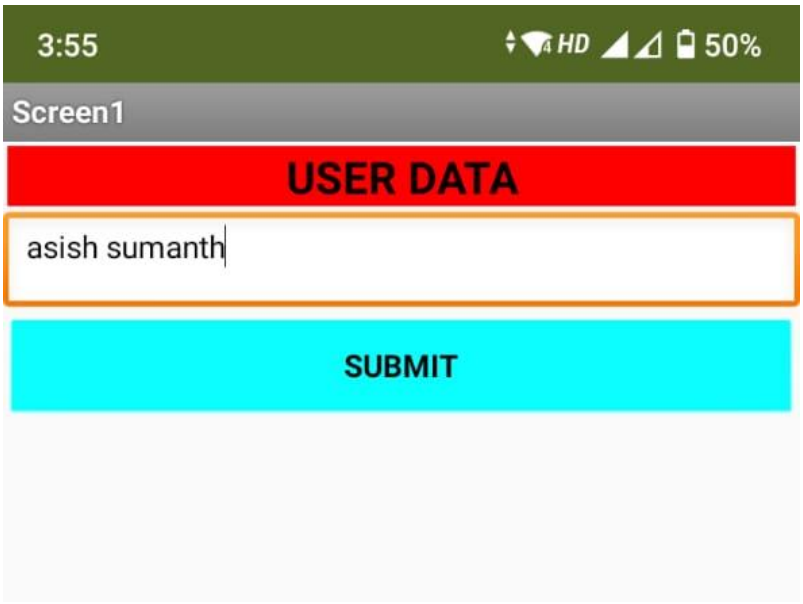


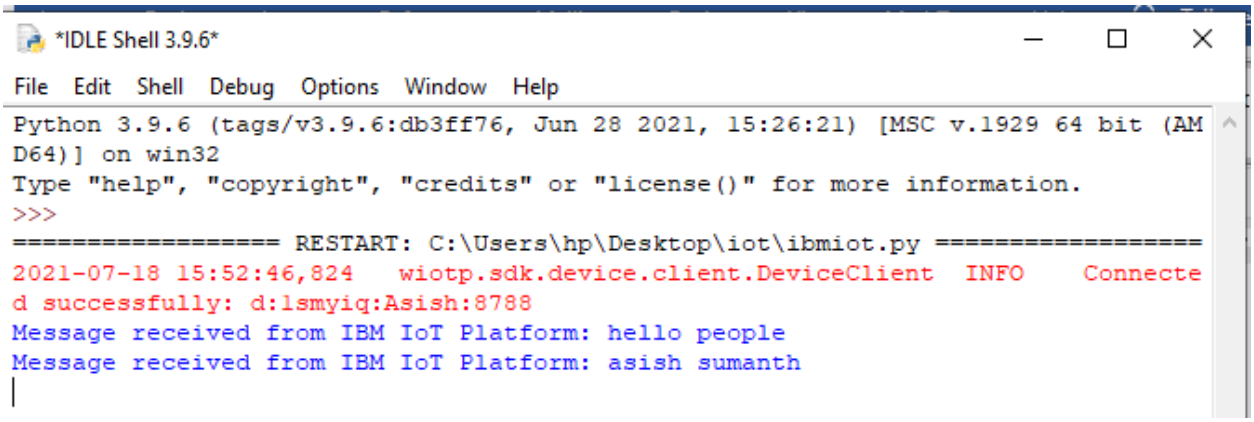
Viewer


when Button1 .Click
do set Web1 . Url to join " https://node-red-serzv-2021-07-09.eu-gb.mybluemi... "
TextBox1 . Text
call Web1 .Get


MIT APP INVENTOR
IBMIOT
Palette
Viewer
Components
Properties
Screen1
USER DATA
SUBMIT
TextBox1
Label1
Button1
Web1
Clock1
Type here to search

Output:


3:55
HD
50%
Screen1
USER DATA
asish sumanth
SUBMIT


IDLE Shell 3.9.6
File Edit Shell Debug Options Window Help
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\hp\Desktop\iot\ibmiot.py ==========
2021-07-18 15:52:46,824 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:lsmyiq:Asish:8788
Message received from IBM IoT Platform: hello people
Message received from IBM IoT Platform: asish sumanth


18/07/2021, 15:49:56 node: 10bf66dd.8118f9
msg.payload : Object
{ empty }
18/07/2021, 15:53:50 node: 10bf66dd.8118f9
msg.payload : Object
{ command: "hello people" }
18/07/2021, 15:55:07 node: 10bf66dd.8118f9
msg.payload : Object
{ command: "asish sumanth" }