Assignment-4

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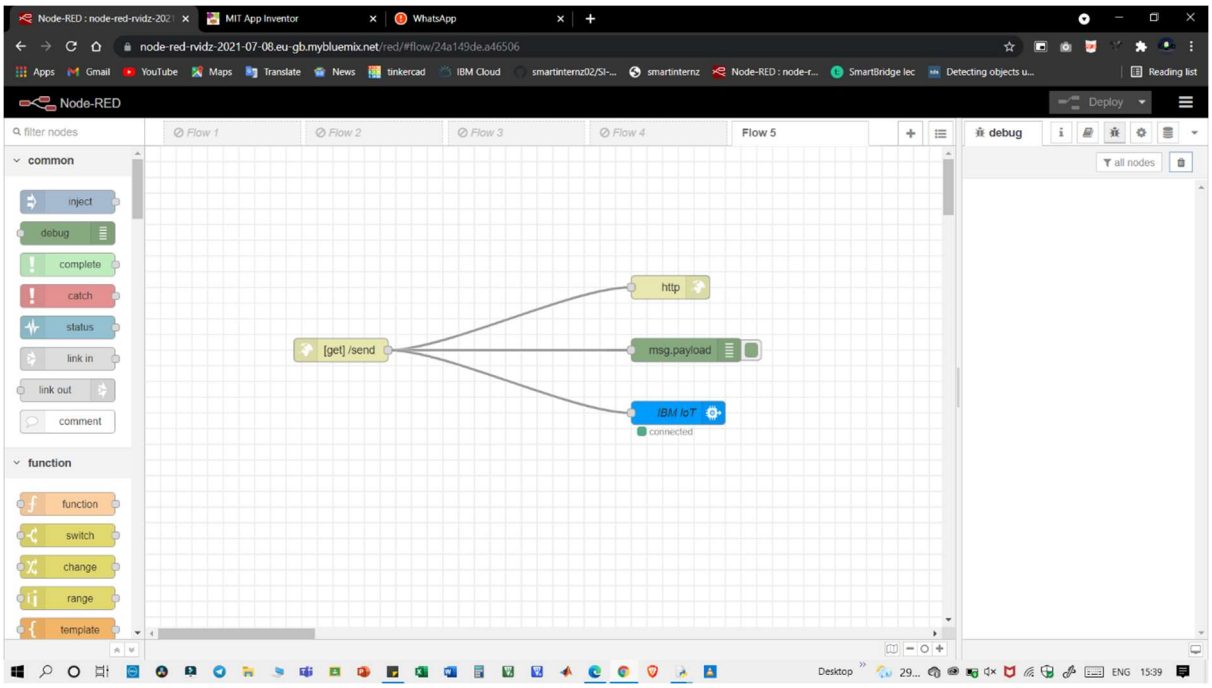
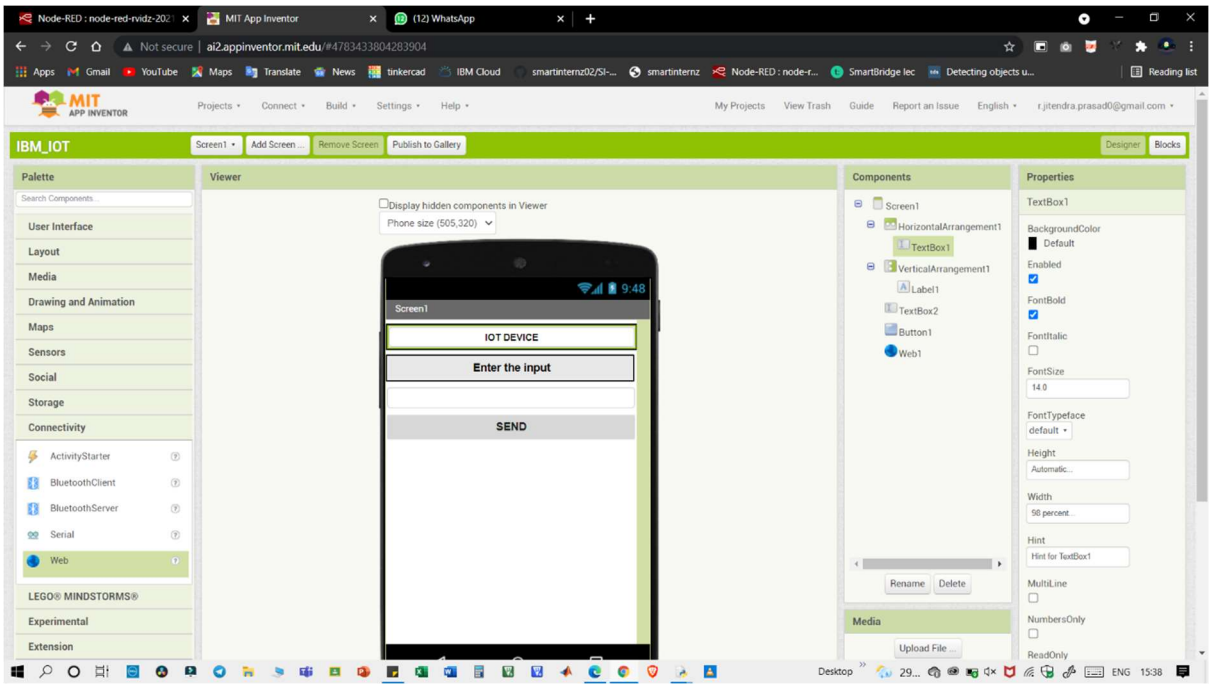
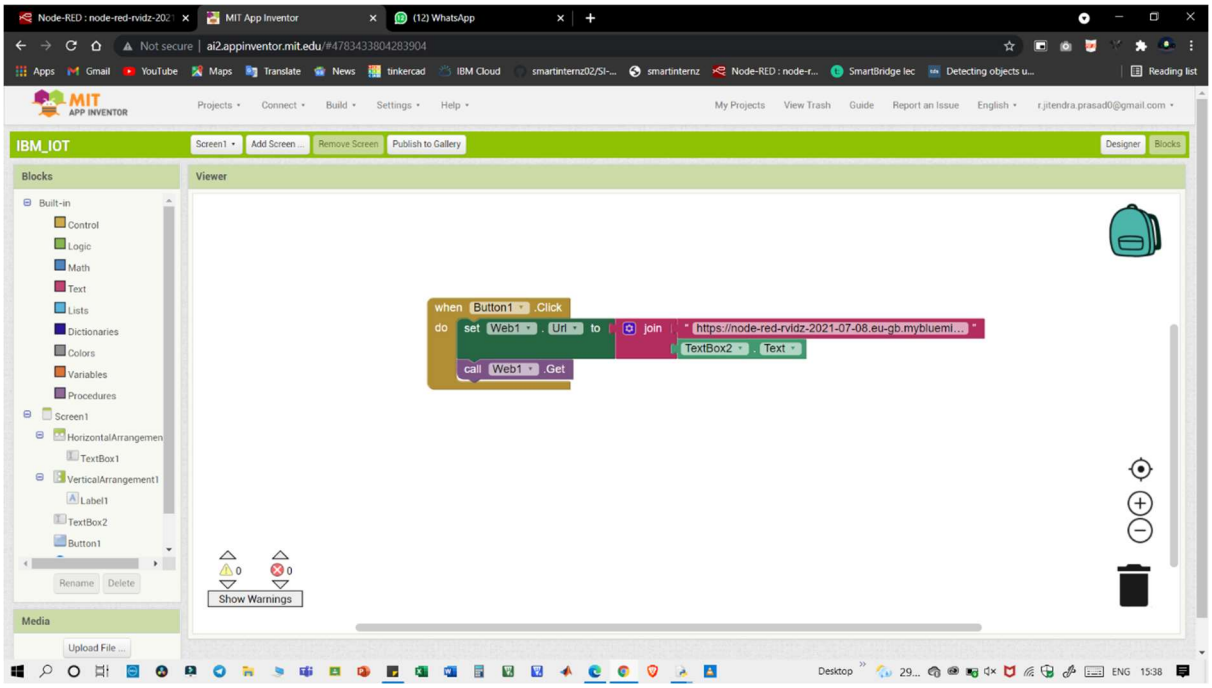
Develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.Keep a text box to accept the user input.integrate a submit button.whenever user enters the text input in text box and clicks the button the data should be sent to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



Designer:



Blocks:



Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
    "orgId": "xkdbgo",
    "typeId": "IOTDevice",
    "deviceId":"181016"
    },
    "auth": {
    "token": "147258369"
 }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    print()
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
```

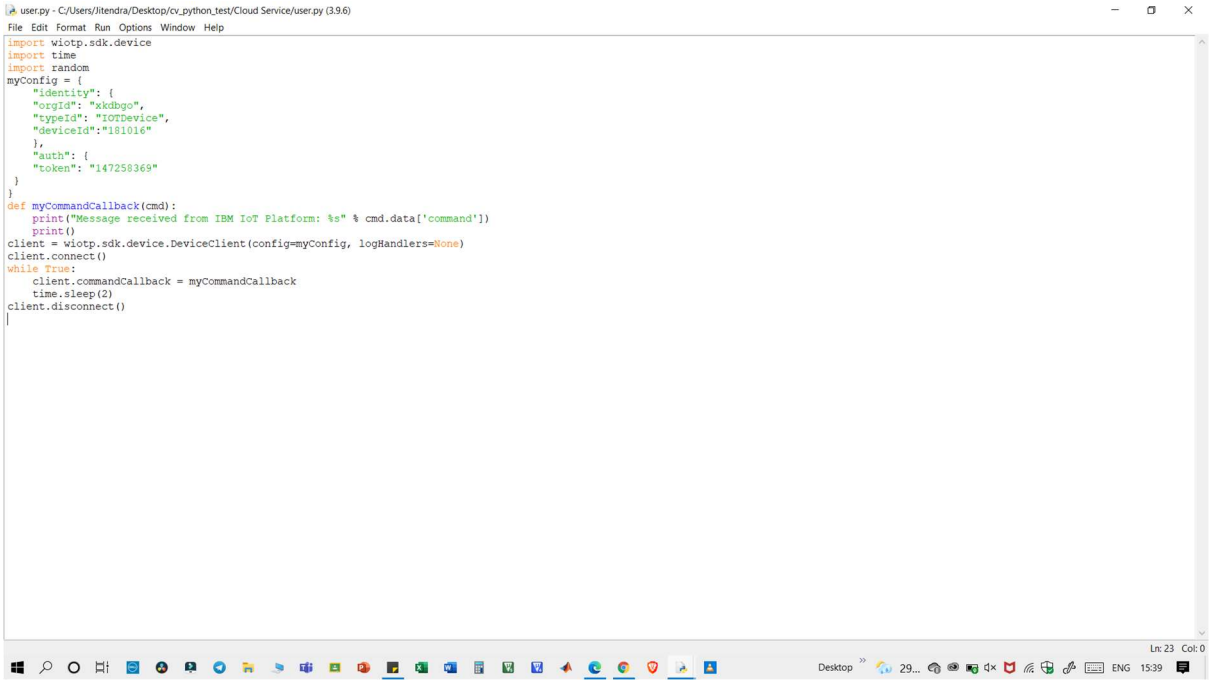
client.connect()

while True:

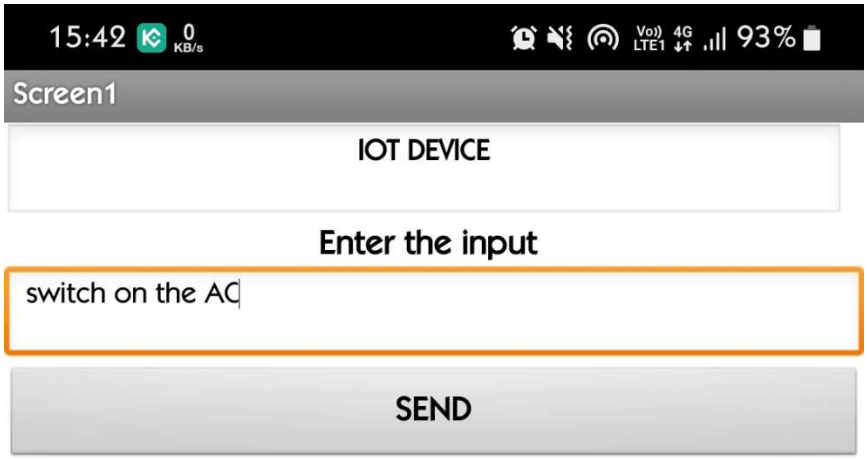
    client.commandCallback = myCommandCallback

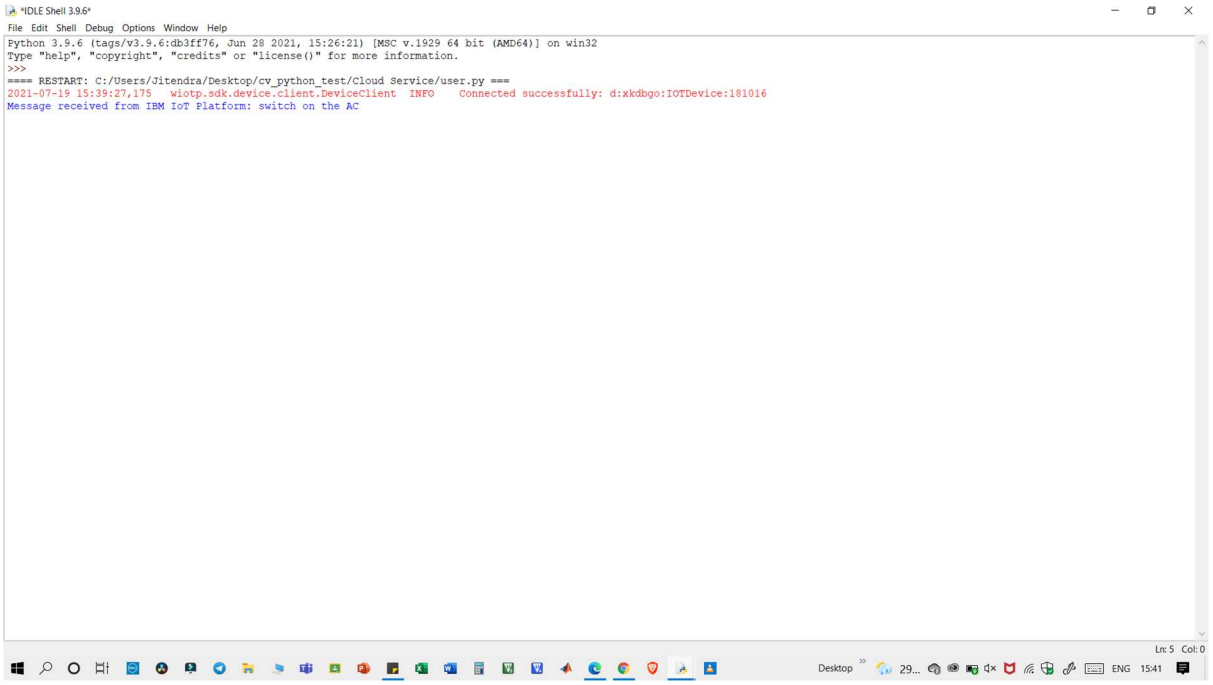
    time.sleep(2)

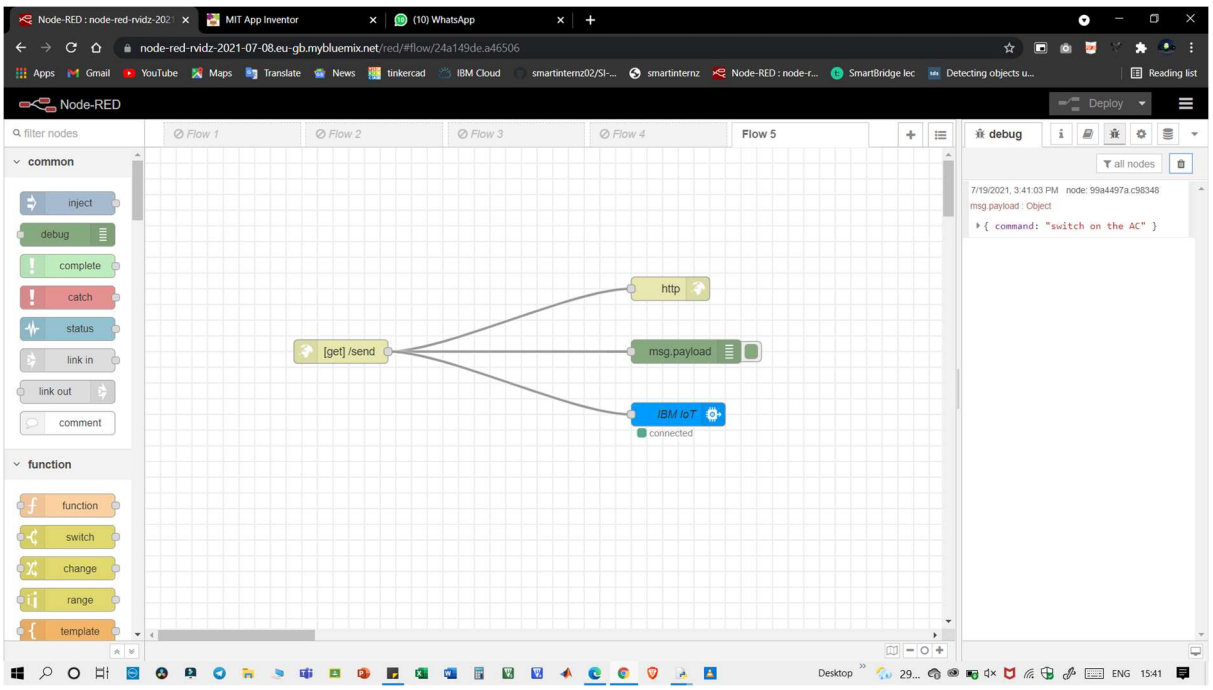
client.disconnect()



After execution:


15:42
93%
Screen1
IOT DEVICE
Enter the input
switch on the AC
SEND


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/Jitendra/Desktop/cv_python_test/Cloud Service/user.py ===
2021-07-19 15:39:27,175 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:xkdbgo:IOTDevice:181016
Message received from IBM IoT Platform: switch on the AC
Ln: 5 Col: 0


Node-RED : node-red-rvidz-2021
MIT App Inventor
(10) WhatsApp
node-red-rvidz-2021-07-08.eu-gb.mybluemix.net/red/#flow/24a149de.a46506
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
Flow 3
Flow 4
Flow 5
common
inject
debug
complete
catch
status
link in
link out
comment
function
function
switch
change
range
template
[get] /send
http
msg.payload
IBM IoT
connected
debug
all nodes
7/19/2021, 3:41:03 PM node: 99a4497a.c98348
msg.payload : Object
{ command: "switch on the AC" }