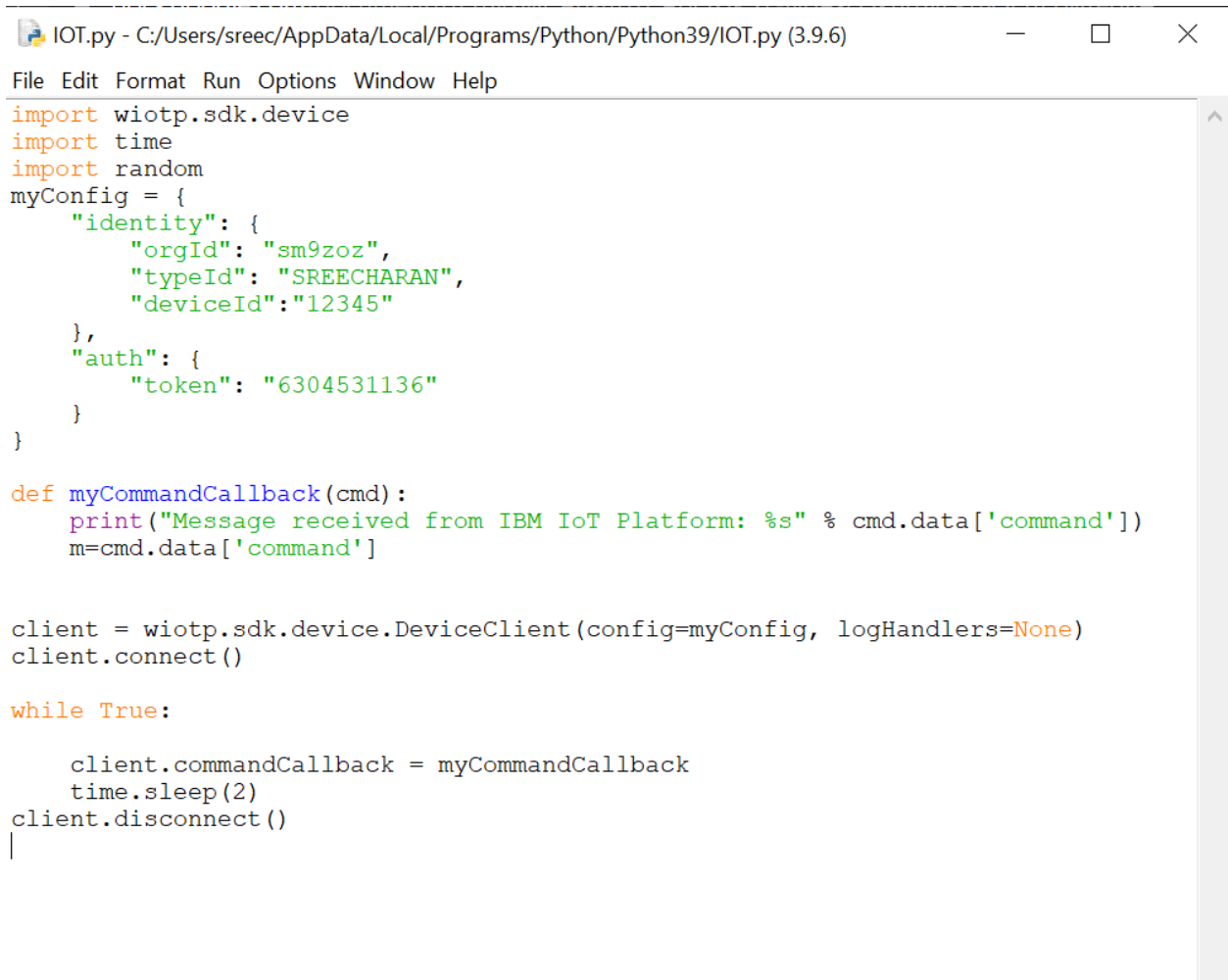# ASSIGNMENT 4

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

IOT.py - C:/Users/sreec/AppData/Local/Programs/Python/Python39/IOT.py (3.9.6) — □ ✕

File Edit Format Run Options Window Help

```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "sm9zoz",
        "typeId": "SREECHARAN",
        "deviceId":"12345"
    },
    "auth": {
        "token": "6304531136"
    }
}

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()
```
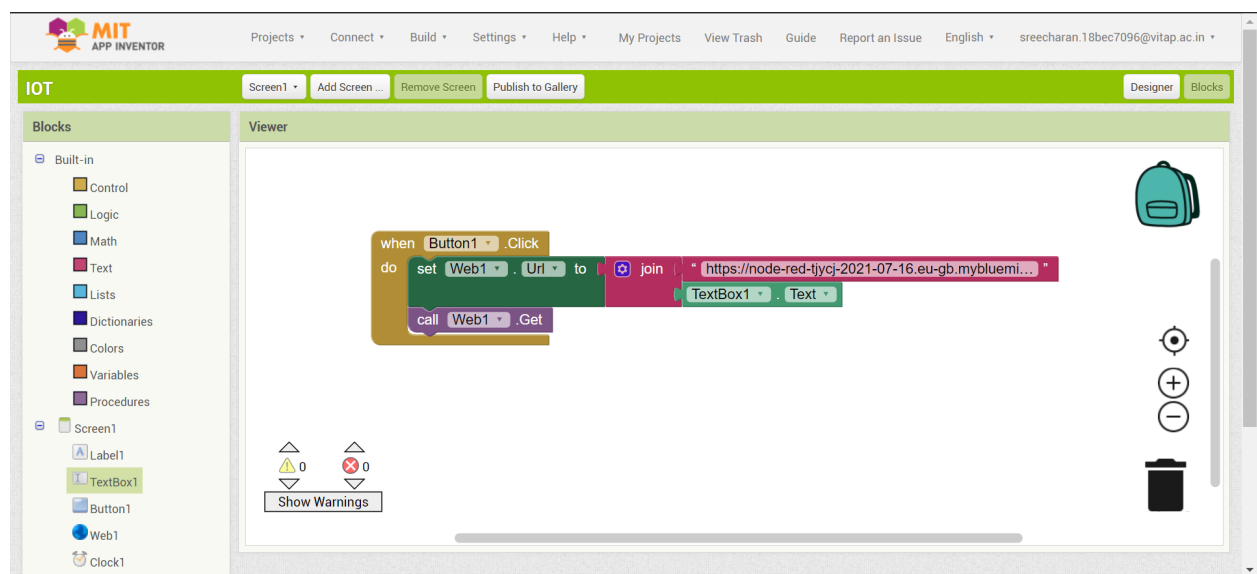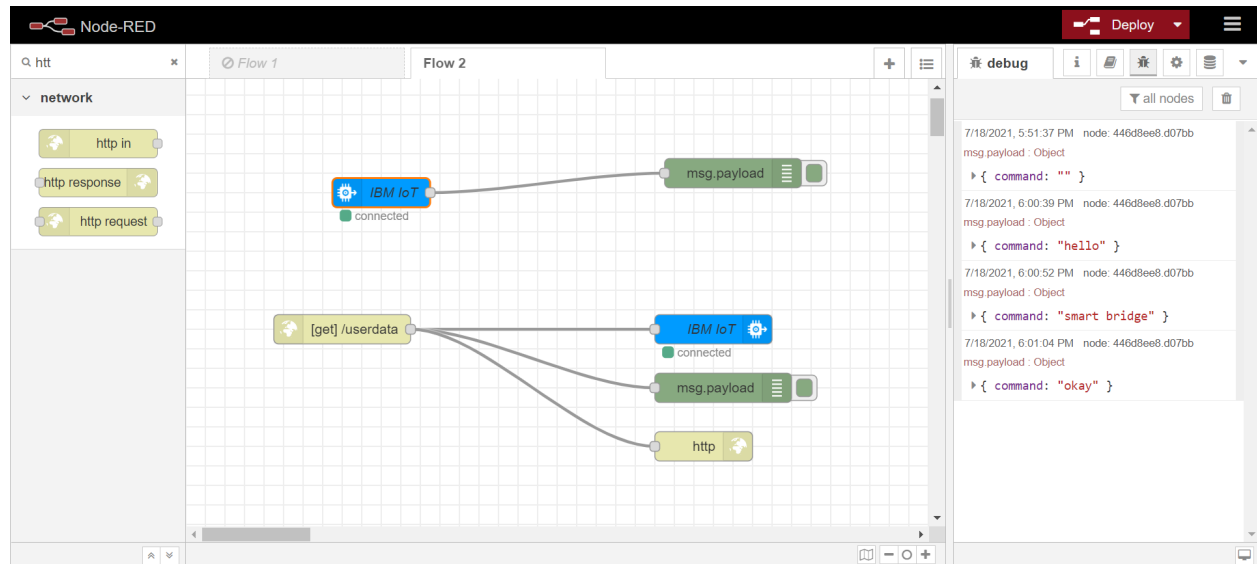
CODE:

```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "sm9zoz",
        "typeId": "SREECHARAN",
        "deviceId":"12345"
    },
    "auth": {
        "token": "6304531136"
    }
}

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()
```
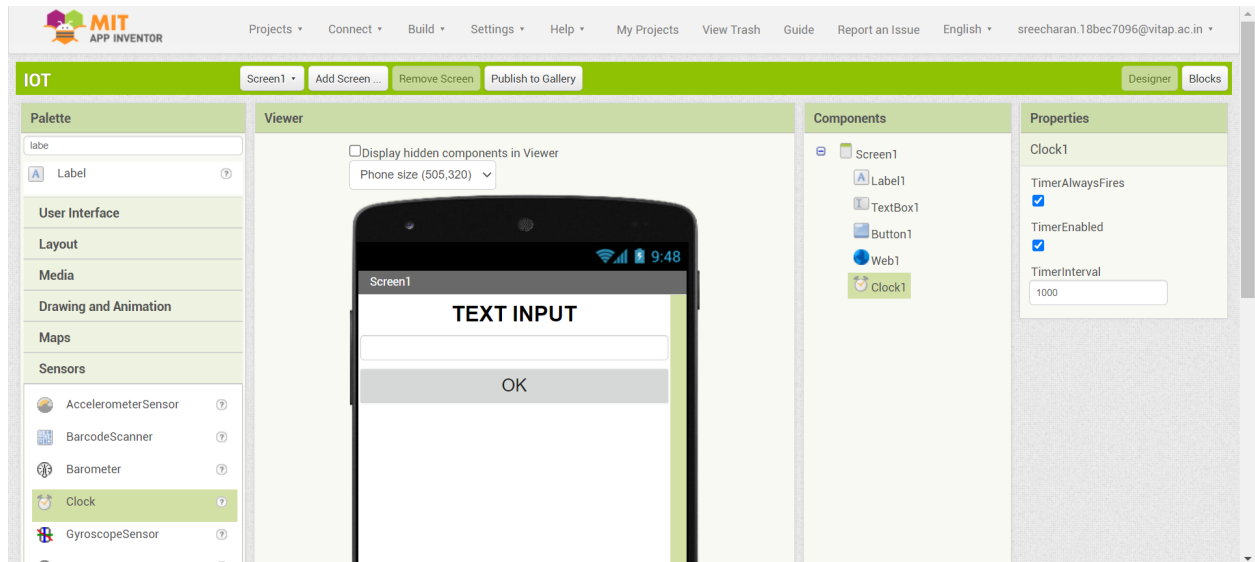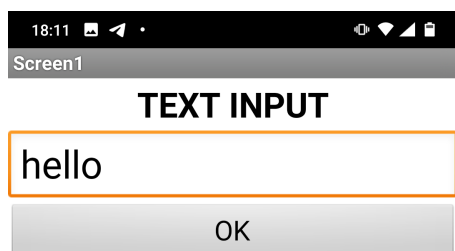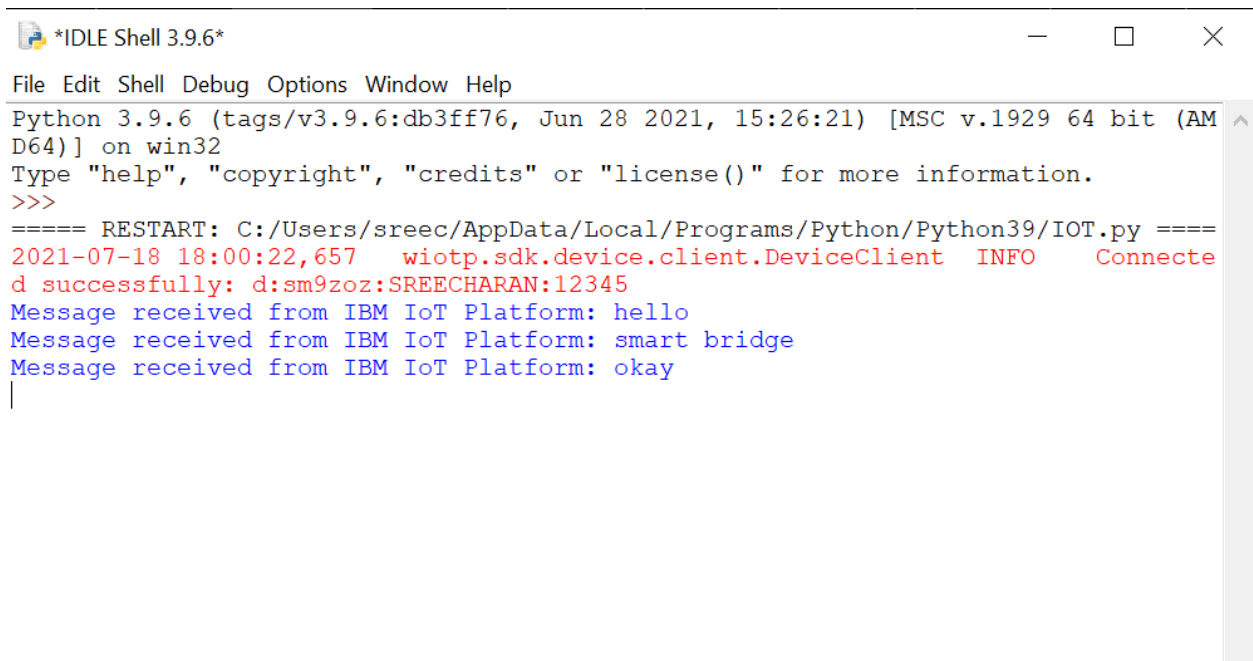
Blocks in mit app inventor

Design in MIT app inventor.

App in mobile

```
*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 (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/sreec/AppData/Local/Programs/Python/Python39/IOT.py ====
2021-07-18 18:00:22,657    wiotp.sdk.device.client.DeviceClient   INFO     Connecte
d successfully: d:sm9zoz:SREECHARAN:12345
Message received from IBM IoT Platform: hello
Message received from IBM IoT Platform: smart bridge
Message received from IBM IoT Platform: okay
```

Received data in python shell.