

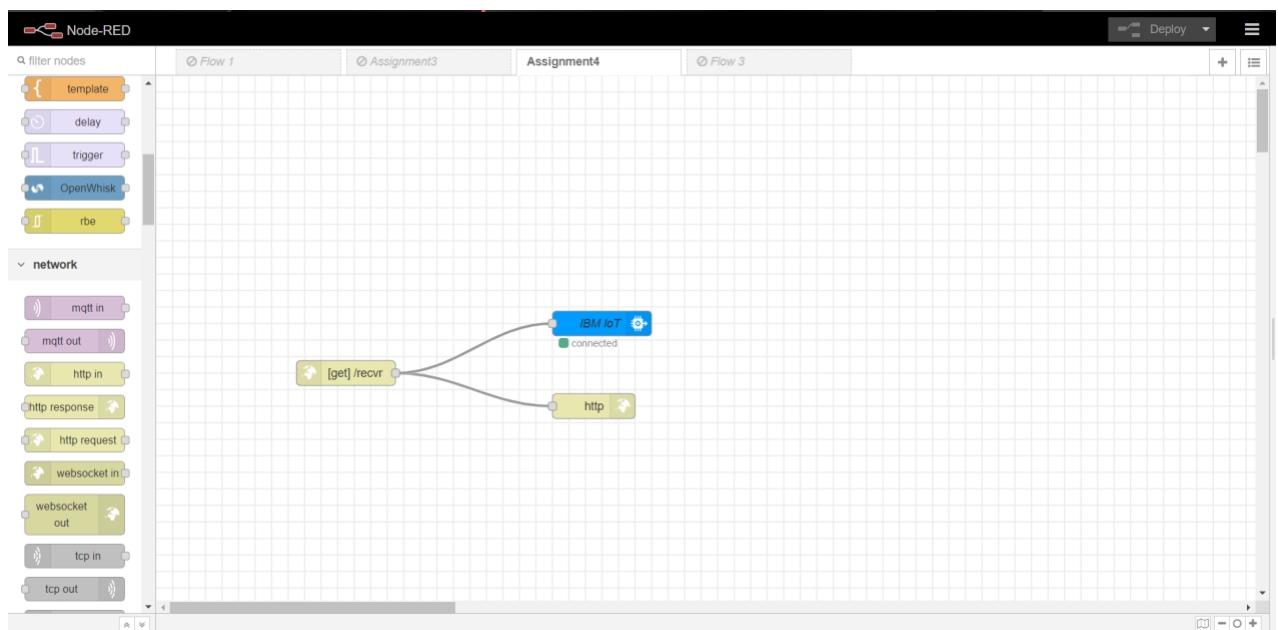
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## **ASSIGNMENT-4**

**AIM:** To develop a mobile application that takes the user input and sends it to IoT device (python code). print the received data in python shell.

### **Node-RED Flow:**



## **PROGRAM:**

```
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "udbkdj",
        "typeId": "Third_device",
        "deviceId": "Ziggy3"
    },
    "auth": {
        "token": "9030435887"
    }
}

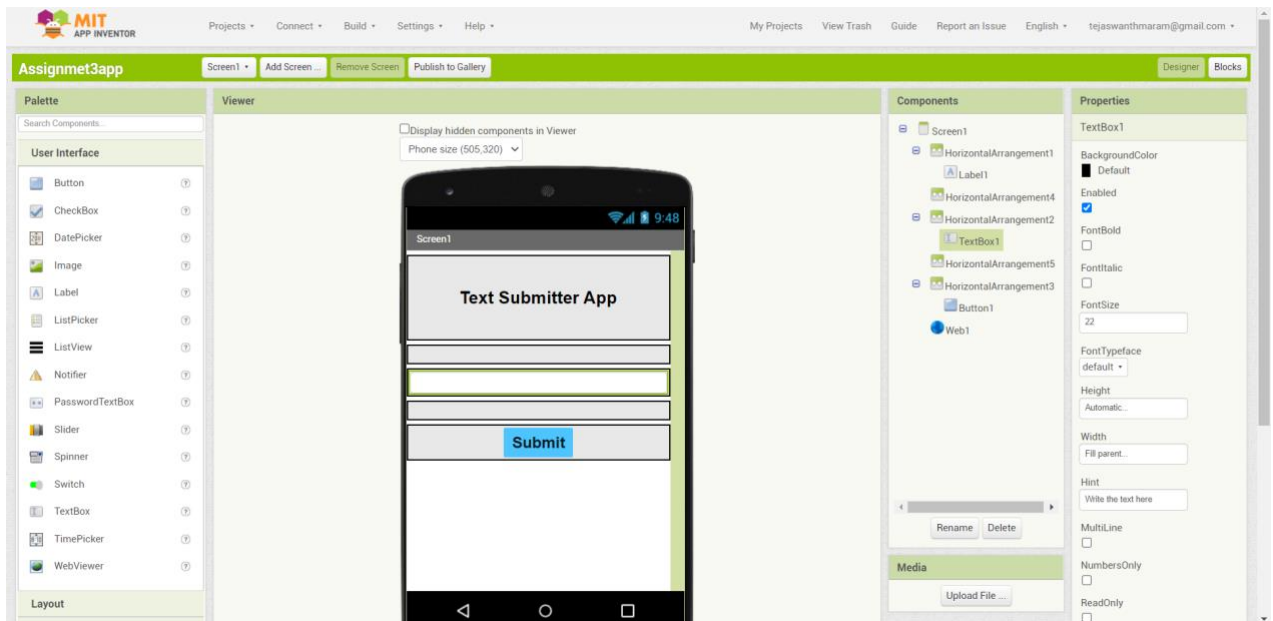
def myCommandCallback(cmd):
    m=cmd.data['command']
    print(f"\nMessage received from IBM IoT Platform: {m}\n")

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

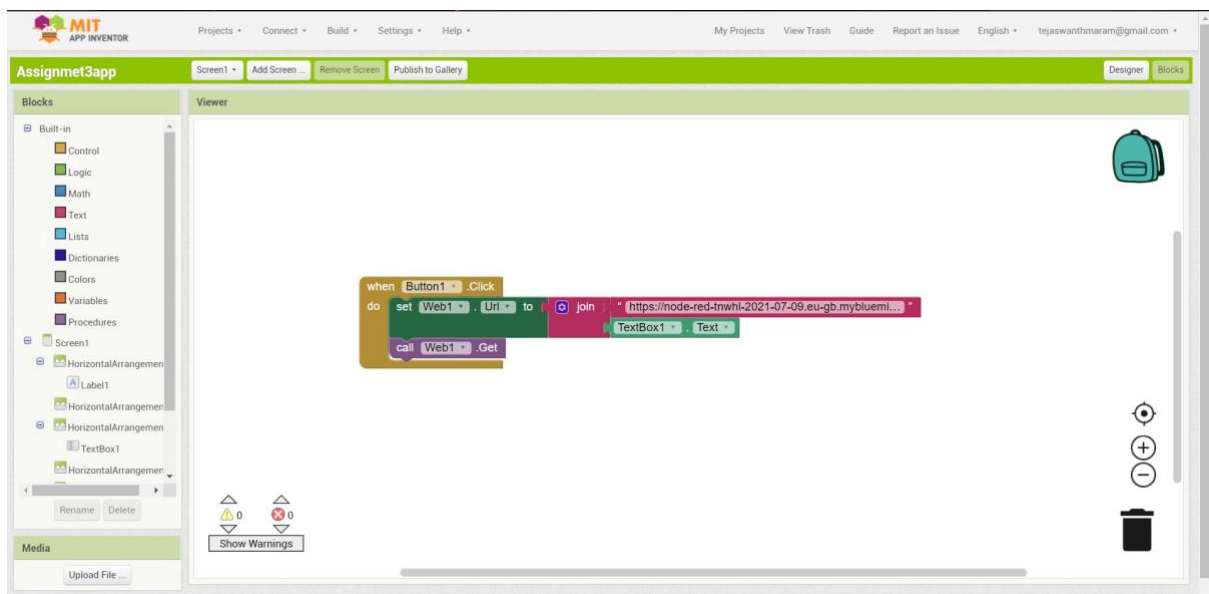
while True:
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

# SIMULATION:

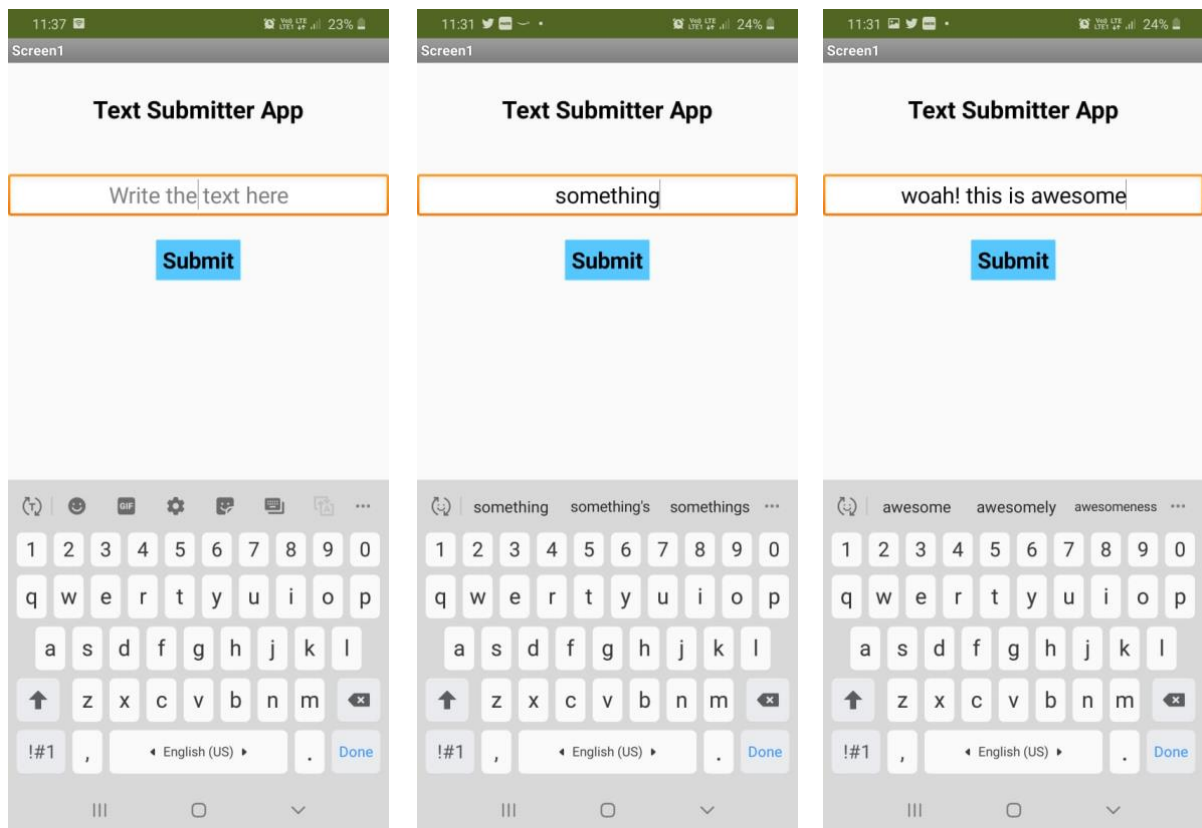
## MIT Inventor App Designer:



## MIT Inventor App Blocks:



## App in Phone:



## Pyhton(jupyter notebook):

```
jupyter Assignment4 Last Checkpoint Last Thursday at 21:25 (autosaved) Logout
File Edit View Insert Cell Kernel Widgets Help Trusted Python 3
In [*]: import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "udbkdj",
        "typeId": "Third_device",
        "deviceId": "ziggy3"
    },
    "auth": {
        "token": "9030435887"
    }
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def myCommandCallback(cmd):
    m=cmd.data['command']
    print(f'\nMessage received from IBM IoT Platform: {m}\n')

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

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

2021-07-17 11:31:20,540 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:udbkdj:Third_device:Ziggy3

Message received from IBM IoT Platform: something

Message received from IBM IoT Platform: woah! this is awesome
```

## Messages received in Python:

```
2021-07-17 11:31:20,540 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:udbkdj:Third_device:Ziggy3
```

```
Message received from IBM IoT Platform: something
```

```
Message received from IBM IoT Platform: woah! this is awesome
```

**RESULT:** Hence, mobile application is developed which takes the user input and sends it to IoT device (python code). print the received data in python shell.