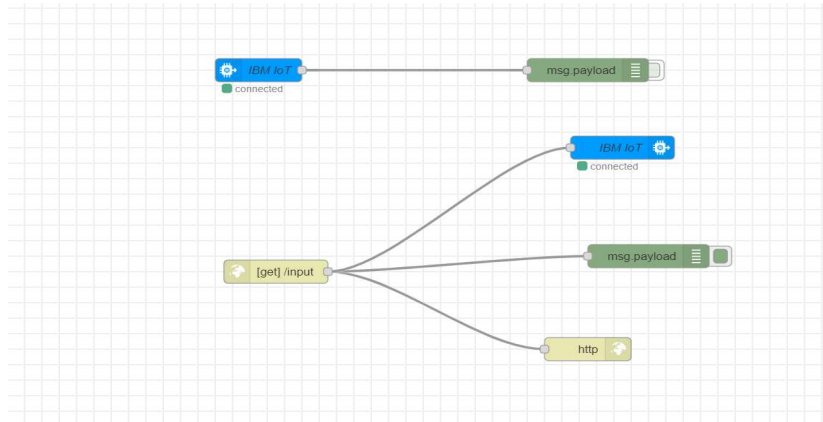


ASSIGNMENT-4

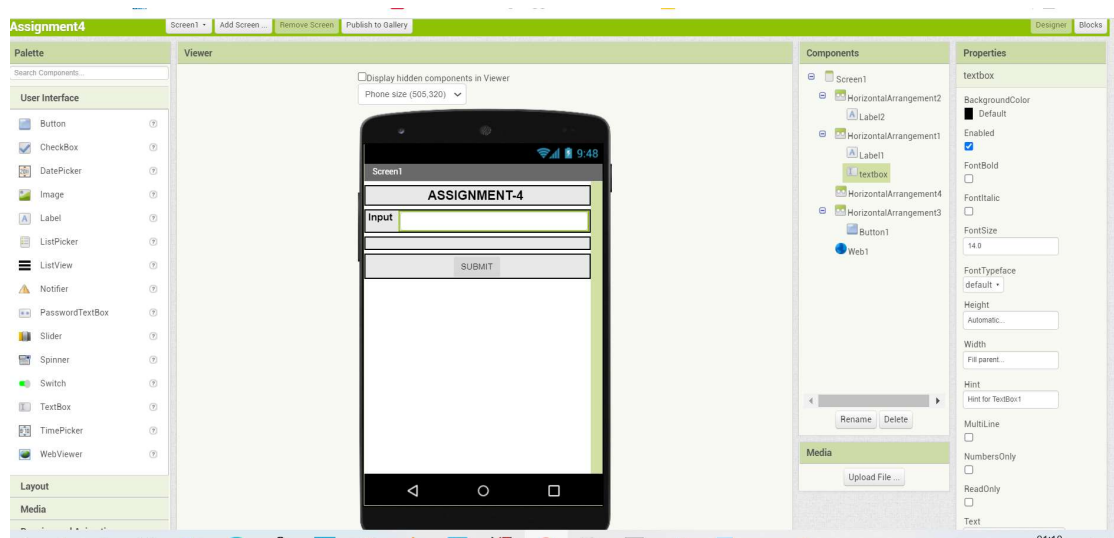
Name: Shreyansh kumar

Reg no: 19BEC1246

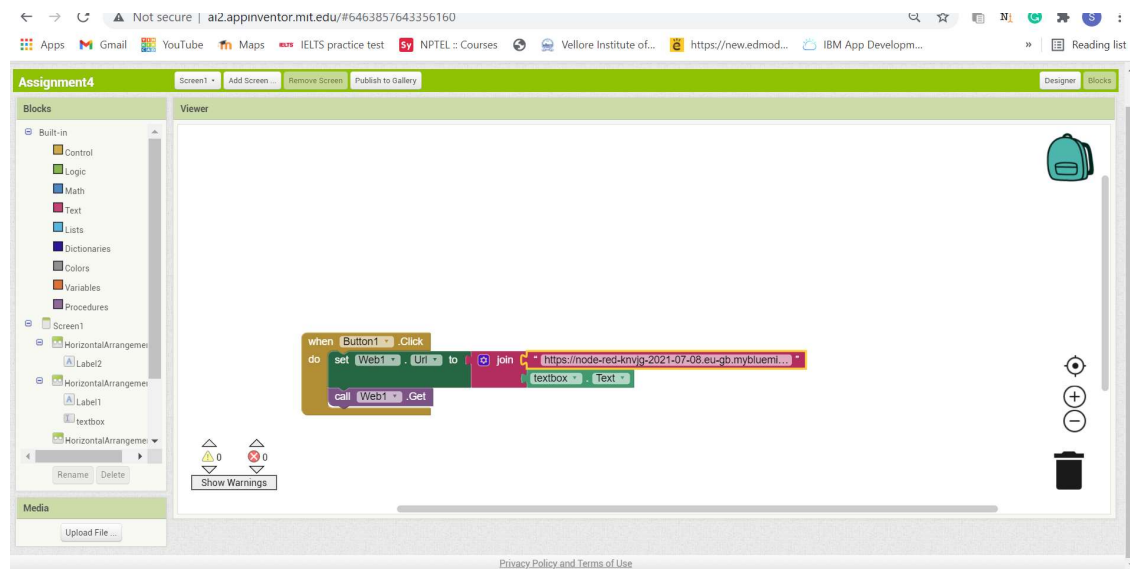
Node Red Flow:



MIT app inventor (Designer):



MIT app inventor (Blocks):



Python Code:

```
IoT
assignment4.py - C:\Users\Shreyansh\OneDrive\Desktop\IoT\assignment4.py (3.9.6)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "1z1sjs",
        "typeId": "VITshre",
        "deviceId": "700425"
    },
    "auth": {
        "token": "7004251110"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])

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

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

Output (From MIT AI2 Companion):

File Edit Shell Debug Options Window Help

Python 3.9.6 (tags/v3.9.6:db3fff76, Jun 28 2021, 15:26:21) [M
SC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more
information.
>>>
===== RESTART: C:/Users/Shreyansh/OneDrive/Desktop/IOT/as
signment4.py =====
2021-07-18 01:11:23,845 wiotp.sdk.device.client.DeviceClie
nt INFO Connected successfully: d1z1sjs:VITshre:700425
Message received from IBM IoT Platform: VIT IOT
Message received from IBM IoT Platform: VIT IOT
Message received from IBM IoT Platform: SMARTINTERNZ
Message received from IBM IoT Platform: SMARTINTERNZ EXTERNS
HIP
|

Ln: 7 Col: 0

node-red-knvjg-2021-07-08.eu-gb.mybluem...
Node-RED
Deploy

filter nodes

Flow 1 Flow 2 Flow 3

common

inject

debug

complete

catch

status

link in

link out

comment

function

switch

change

range

msg/input

msg payload

IBM IoT

msg payload

http

debug

all nodes

60335494.b8774c
msg payload: Object
{ command: "VIT IOT" }
7/18/2021, 1:12:46 AM node:
60335494.b8774c
msg payload: Object
{ command: "VIT IOT" }
7/18/2021, 1:12:46 AM node:
60335494.b8774c
msg payload: Object
{ command: "VIT IOT" }
7/18/2021, 1:12:55 AM node:
60335494.b8774c
msg payload: Object
{ command: "SMARTINTERNZ" }
7/18/2021, 1:13:05 AM node:
60335494.b8774c
msg payload: Object
{ command: "SMARTINTERNZ
EXTERNSHIP" }

Ln: 1 Col: 0