

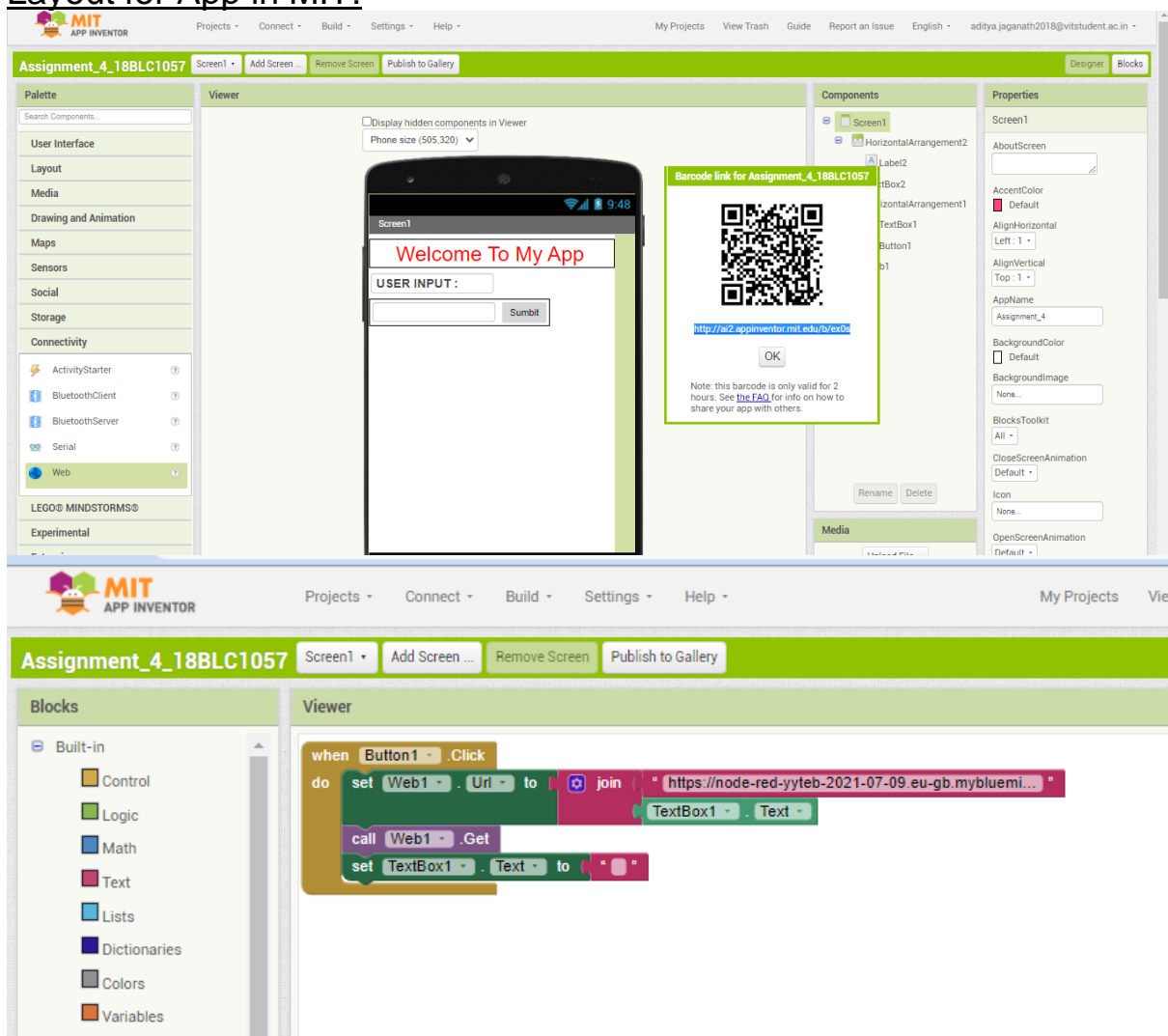
ASSIGNMENT-4

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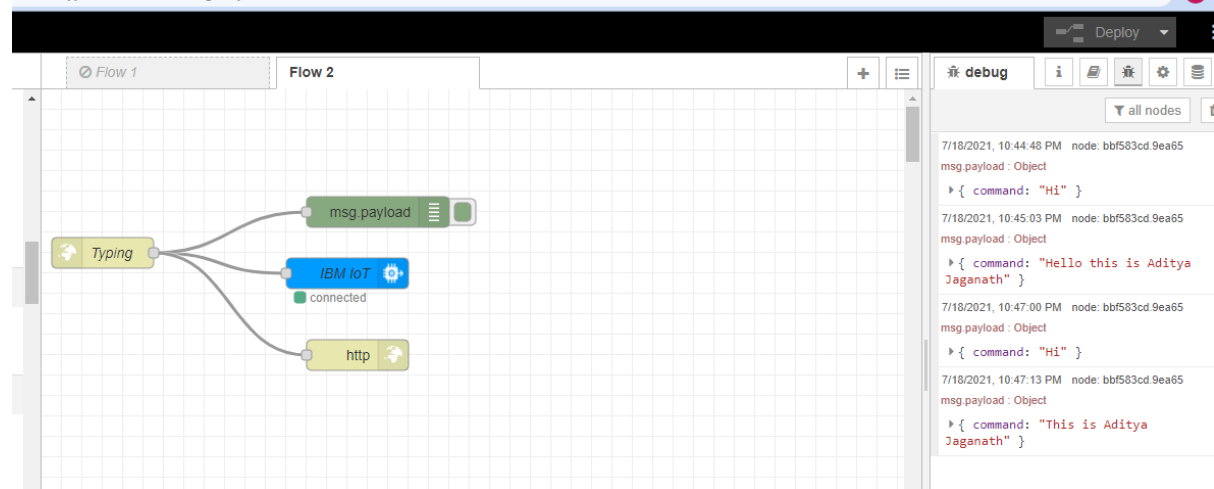
Q) Develop a mobile application that takes the user input and sends it to IoT device (python code). Print the received data in python shell. Keep a text box to accept the user input. Integrate a submit button. Whenever user enters the text input in text box and clicks the button the data should be sent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

Layout for App in MIT:



Node Red - Getting response from app

ode-red-yyteb-2021-07-09.eu-gb.mybluemix.net/red/#flow/f91fd9c1.a496e8



Python Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "v34dpq",
        "typeId": "18BLC1057",
        "deviceId": "123456"
    },
    "auth": {
        "token": "123456789"
    }
}

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:

Python shell:

```
>>>
===== RESTART: C:/Users/adity/AppData/Local/Programs/Python/Python39/Assignment 4.py =====
2021-07-18 22:46:02,570   wiotp.sdk.device.client.DeviceClient   INFO   Connected successfully: d:v34dpq:l8BLC1057:123456

===== RESTART: C:/Users/adity/AppData/Local/Programs/Python/Python39/Assignment 4.py ==
2021-07-18 22:46:02,570   wiotp.sdk.device.client.DeviceClient   INFO   Connected successfully: d:v34dpq:l8BLC1057:123456
Message received from IBM IoT Platform: Hi
Message received from IBM IoT Platform: This is Aditya Jaganath
|
```

Mobile App:



Welcome To My App

USER INPUT :

This is aditya jaganath

Sumbit



APP LINK:

<http://ai2.appinventor.mit.edu/b/ex0s>