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## **Assignment-4:**

Develop a mobile application that takes the user input and sends it to IoT device(pythoncode).print thereceived 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 andclicks the button the data should be sent to IBM cloud using URL(HTTP API).

**Software:** IDLE , MIT & NODE RED APPS

### **Code:**

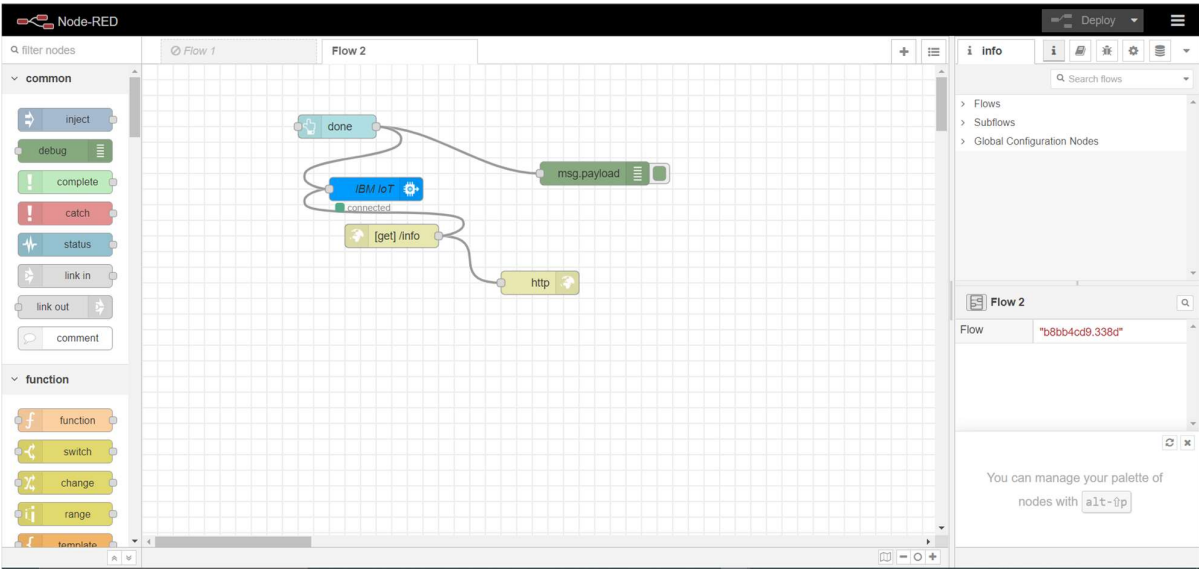
```
w1.py - C:\Users\nihith\OneDrive\Desktop\w1.py (3.9.6)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "2rqk7o",
        "typeId": "VITDevice",
        "deviceId": "nihith1097"
    },
    "auth": {
        "token": "nihith18"
    }
}

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

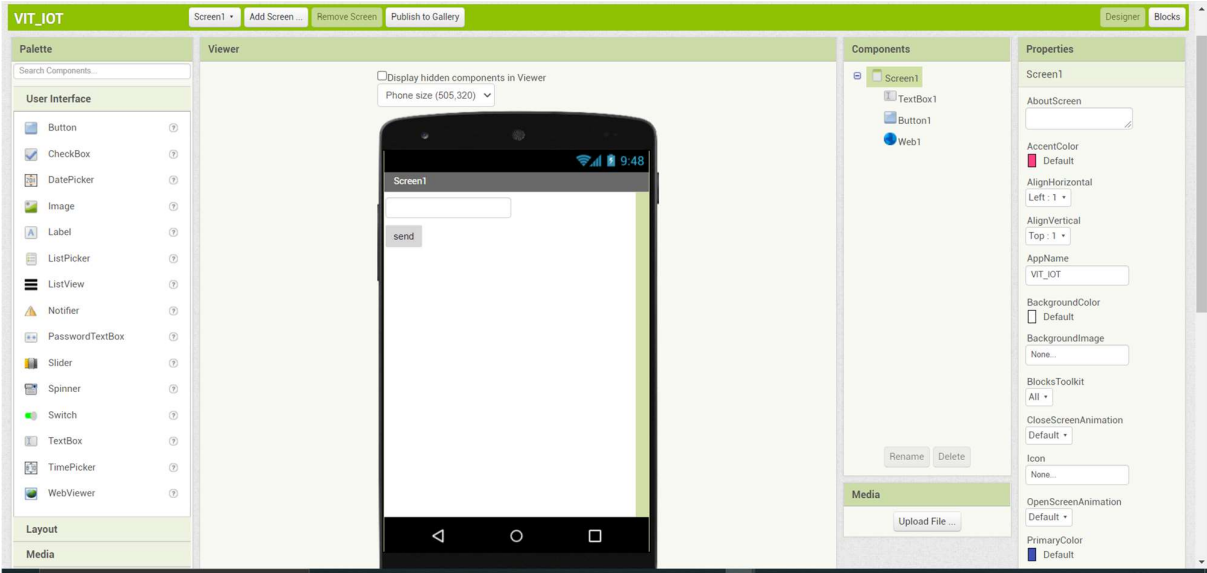
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

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

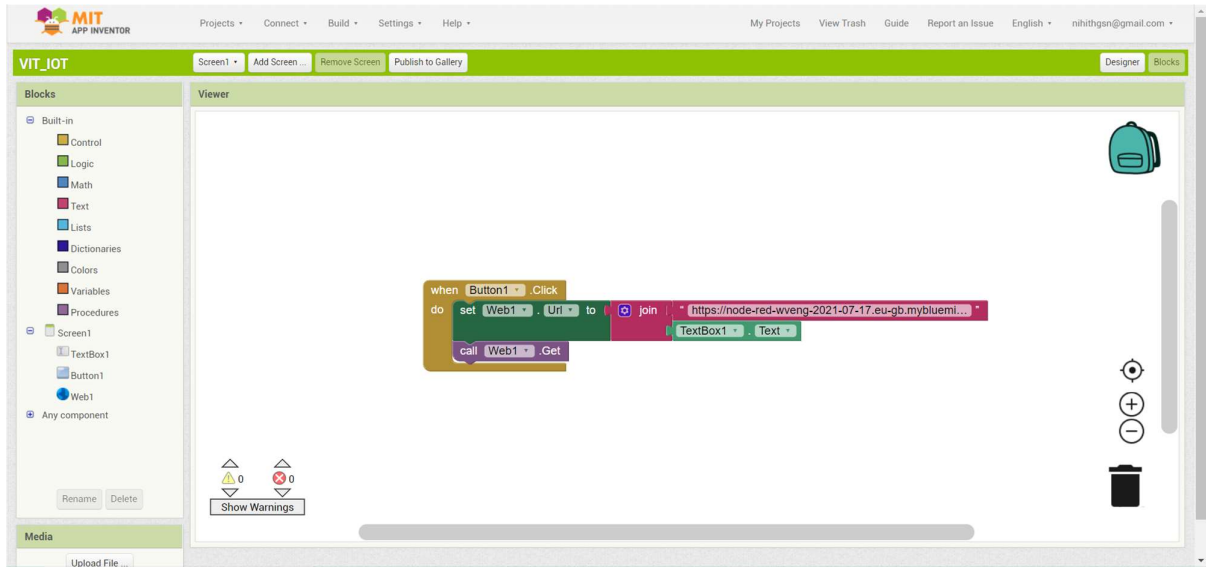
**Node red:**



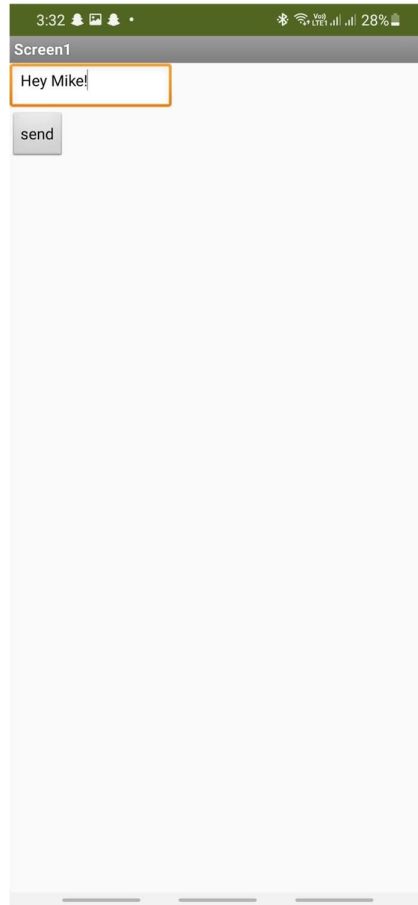
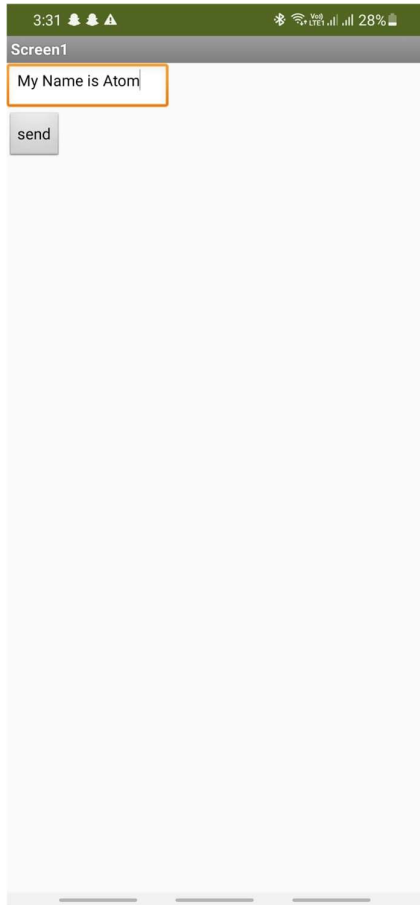
**MIT APP:**



## Blocks:



After building the blocks we have to connect the web application to phone



## Output:

```
Python 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\nihit\OneDrive\Desktop\wl.py =====
2021-07-19 15:30:45,768 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:2rqk7o:VITDevice:nihith1097
Message received from IBM IoT Platform: My Name is Atom
Message received from IBM IoT Platform: Hey Mike!
```