# **ASSIGNMENT-4**

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

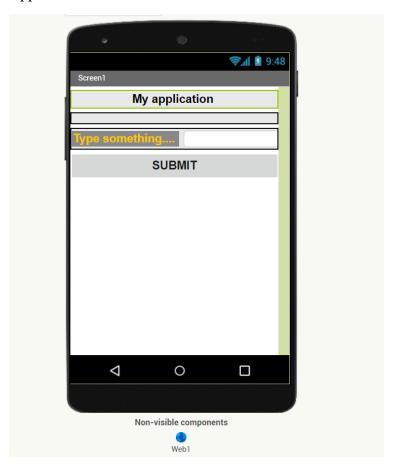
Keep a text box to accept the user input.integrate a submit button.

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).

#### Code:

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "g80xhu",
    "typeId": "GULSHANDevice",
    "deviceId":"867797"
  },
  "auth": {
    "token": "86779700"
}
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()
```

# Application UI



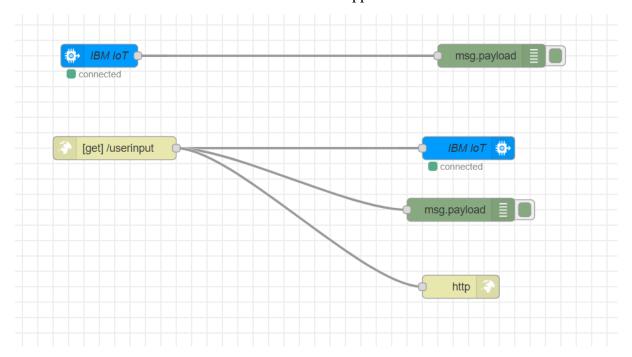
### Blocks to function the above UI

```
when Button1 v .Click
do set Web1 v . Url v to pion thttps://node-red-hvaey-2021-07-09.mybluemix.net/... "

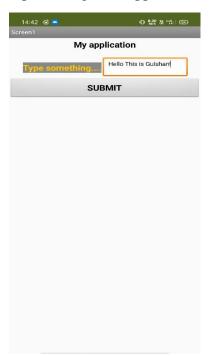
TextBox1 v . Text v

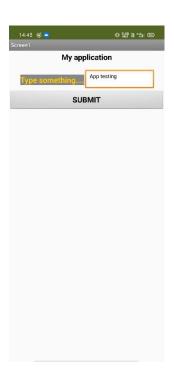
call Web1 v .Get
```

# Node-red Flow that connects the IBMIoT with the Application



# Input through the App:





### Outputs:

### Node-red Debug Screen:

```
∰ debug
                 i 🗐 🛈 🗢 🛢
                           T all nodes
                                          ŵ
7/19/2021, 2:43:36 PM node: bf27aa5a.571ef8
msg.payload : Object
▶ { command: "Hello This is Gulshan!"
7/19/2021, 2:43:36 PM node: bf27aa5a.571ef8
msg.payload : Object
▶ { command: "Hello This is Gulshan!"
}
7/19/2021, 2:43:36 PM node: bf27aa5a.571ef8
msg.payload : Object
▶{ command: "Hello This is Gulshan!"
7/19/2021, 2:43:39 PM node: bf27aa5a.571ef8
msg.payload : Object
▶ { command: "Hello This is Gulshan!"
7/19/2021, 2:43:39 PM node: bf27aa5a.571ef8
msg.payload : Object
▶ { command: "Hello This is Gulshan!"
7/19/2021, 2:44:04 PM node: bf27aa5a.571ef8
msg.payload : Object
▶ { command: "App testing" }
```

### Py shell: