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.

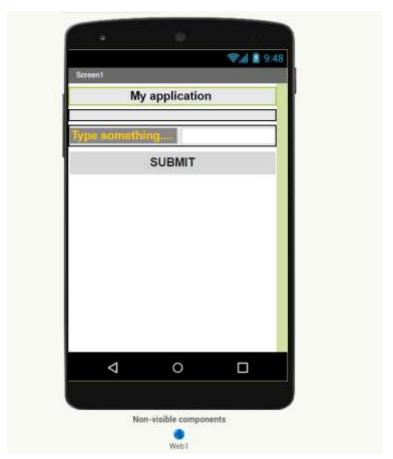
Keep a text box to accept the user input.integrate a submit button.

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:

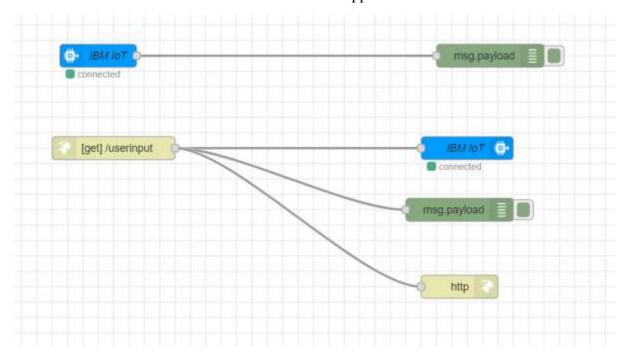
```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "g80xhu",
    "typeId": "GULSHANDevice",
    "deviceId":"867797"
  },
  "auth": {
    "token": "86779700"
  }
}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
  #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

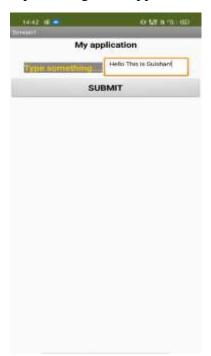


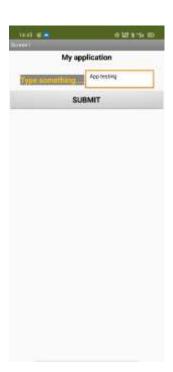
Blocks to function the above UI

Node-red Flow that connects the IBMIoT with the Application



Input through the App:





Outputs:

Node-red Debug Screen:

```
# 0 8
ili debug
                 i #
                          T all nodes 10
7/19/2021, 2:43:36 PM node: b/27aa5a,571ef6
mag payload Object
* { command: "Hello This is Gulshan!"
7/19/2021, 2:43:36 PM - node: b/27ea5e,571ef8
mag payload Coject
▶ { command: "Hello This is Gulshan!"
7/19/2021, 2 43:36 PM tode: bf27ad5a.571ef8
msg payload Object
* { command: "Hello This is Gulshae!"
7/19/2021, 2:43:39 PM node: b/27sa5a.571ef8
msg payload. Object
* ( command: "Hello This is Gulsham!"
7/19/2021, 2:43:39 PM node: bf27aa5a.571ef6
msg.paykad Coject
→{ command: "Hello This is Gulshan!"
7/19/2021, 2:44/04 PM node: bf27aa56:571ef8
mag.payward : Object
* { command: "App testing" }
```

Py shell: