

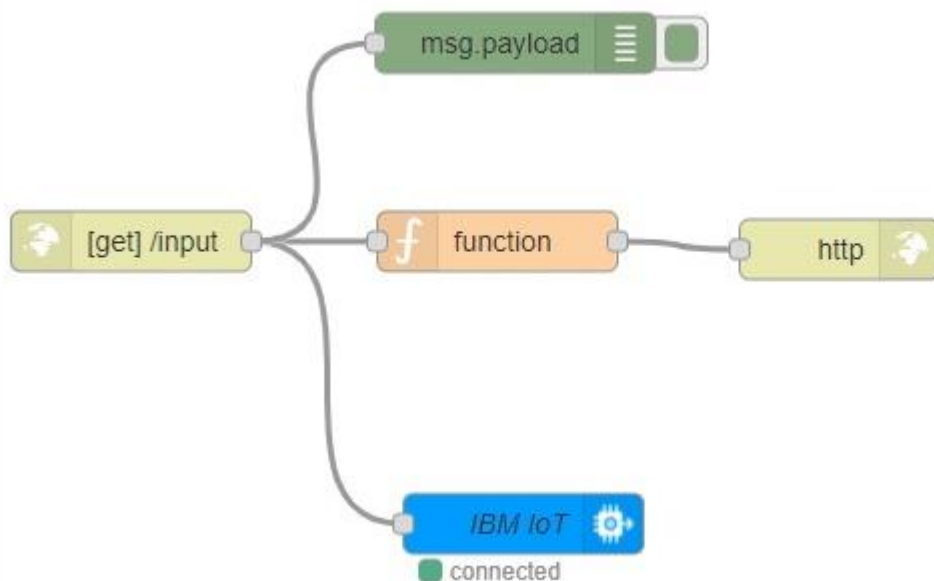
ASSIGNMENT-4

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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).

NODE RED CIRCUIT:



PYTHON CODE

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "46l0go ",
        "typeId": " varshakumar ",
        "deviceId": "270602" },
    "auth": {
        "token": " Varsha160712!"
    }
}
```

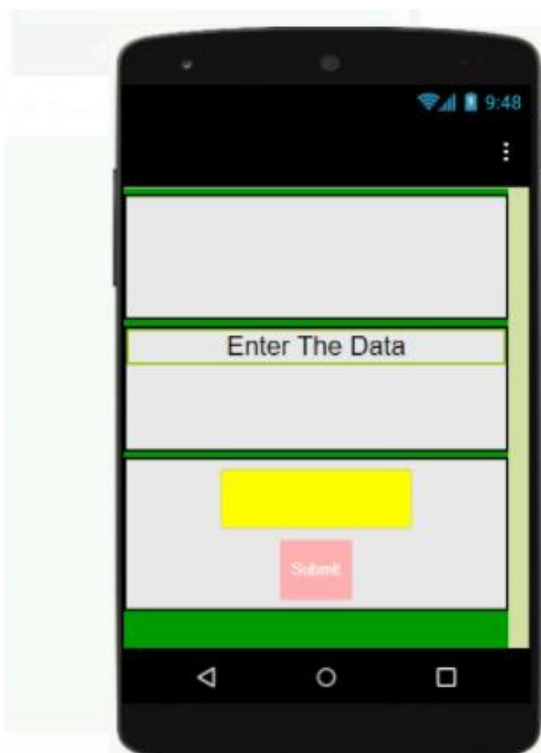
```
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['text'])
    print()

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

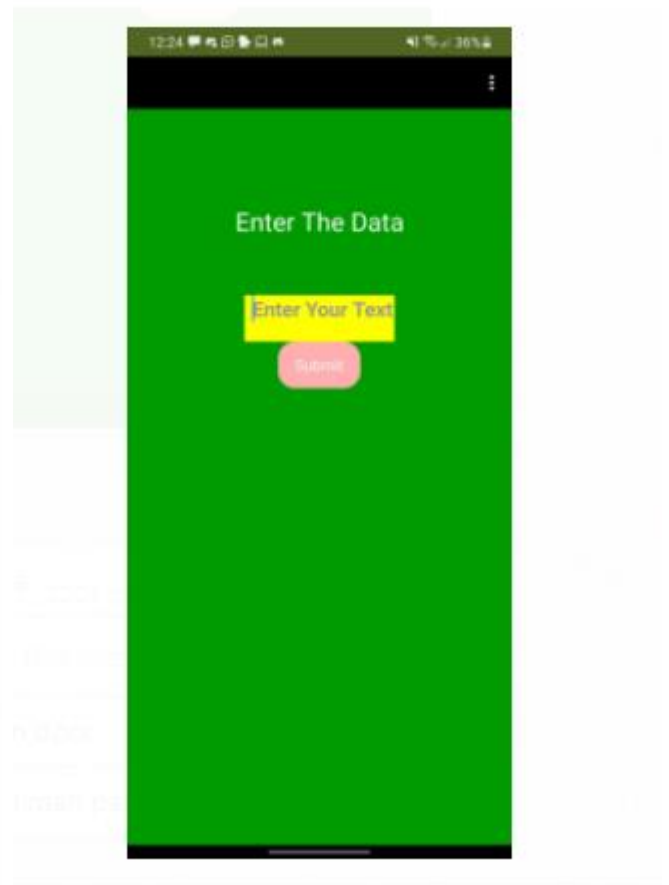
while True:
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

MIT APP INVENTOR

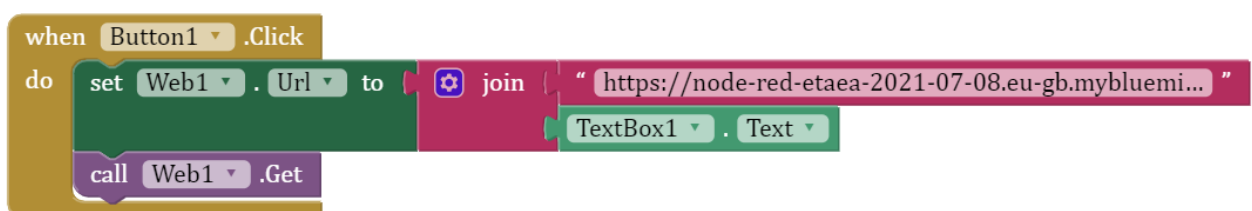
CONSTRUCTED APPLICATION:



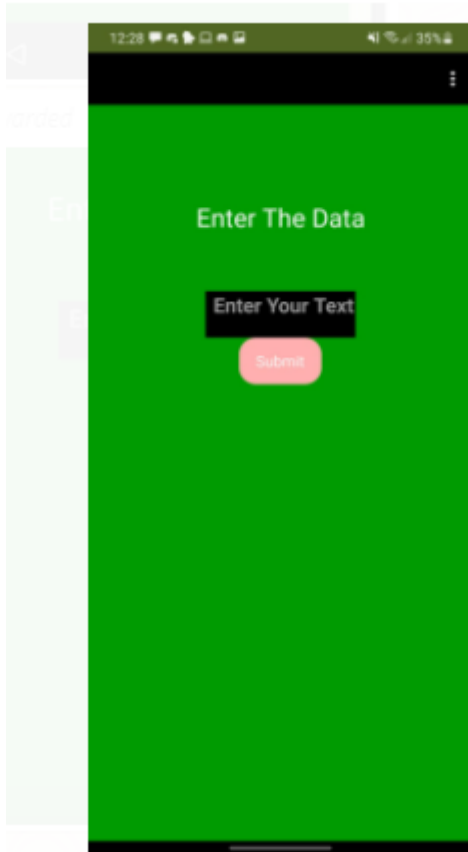
APP SCREEN:



BACKEND



SCREENSHOT



(INPUT)

PYTHON CODE:

```
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "orgId": "46l0go ",
    "typeId": " varshakumar ",
    "deviceId": "270602" },
    "auth": {
        "token": " Varsha160712!"
    }
}

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

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

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

PYTHON OUTPUT

```
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\rsvim\AppData\Local\Programs\Python\Python39\code\Assignment-4.py
2021-07-19 12:32:15,244 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:f6qz98:vimal:29112001
Message received from IBM IoT Platform: jeyvarsha
```

NODE-RED OUTPUT

```
7/19/2021, 12:32:22 PM node: a16183f5.6bacd
msg.payload: Object
  ► { input: "jeyvarsha" }
```