Assignment 4

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Q. Taking commands from mobile applicaion using python and IBM platform.

Ans:

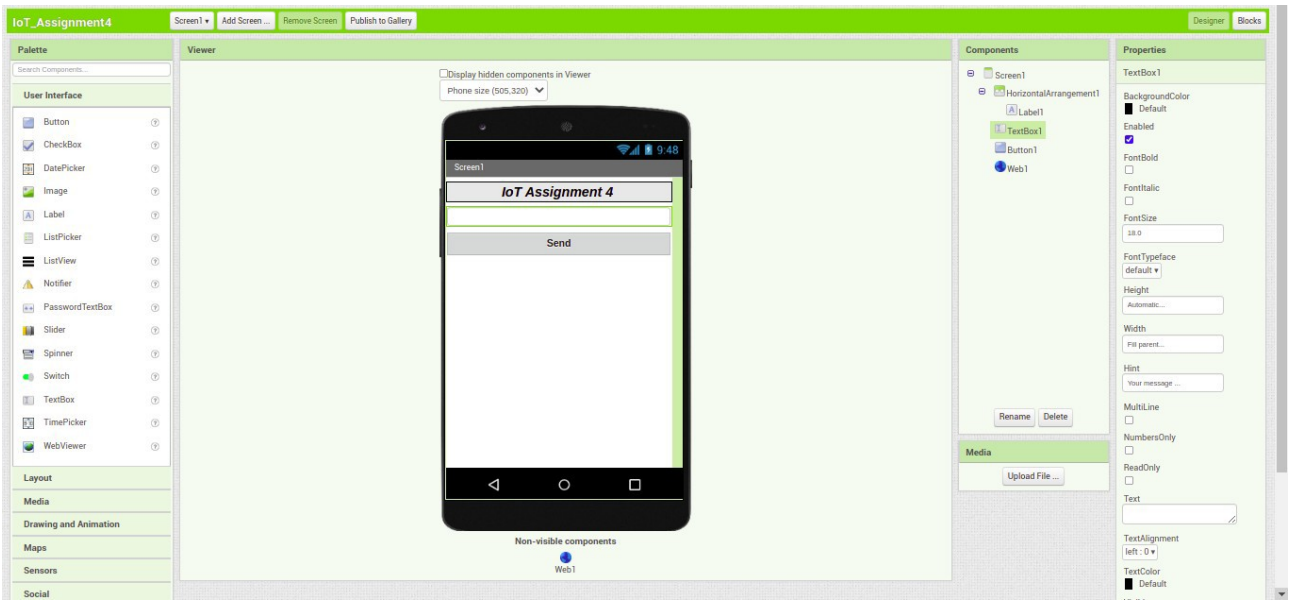
Python Code:

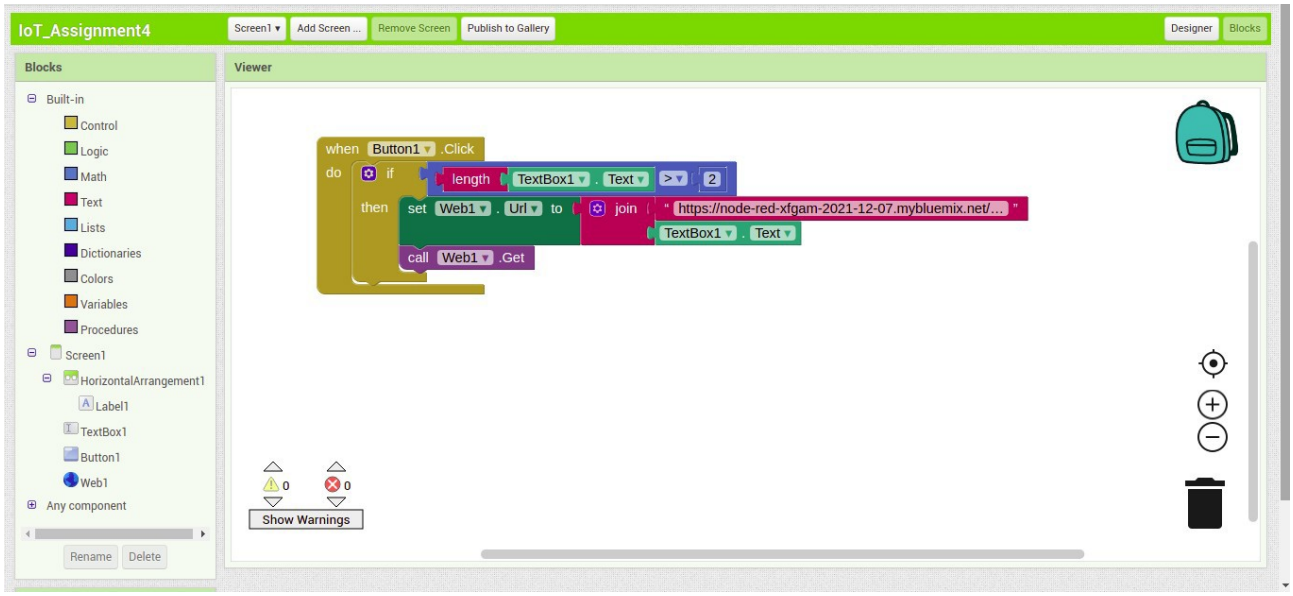
```
import wiotp.sdk.device
import time


myConfig = {
    "identity": {
        "orgId": "asdf",
        "typeId": "Device",
        "deviceId":"99999"
    },
    "auth": {
        "token": "99999999"
    }
}

def myCommandCallback(cmd):
    print(
        "Device sent following message: '{0}'".format(cmd.data['command'],),
    )


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

client.commandCallback = myCommandCallback

i = 0
try:
    while i < 40:
            i += 1
            time.sleep(0.4)
            if (i == 39):
                print('About to end...')
                key = input('Y to continue, else quit: ')
                if (key.lower() in ('y', 'c', '1',)):
                        i = 0
                        continue
```

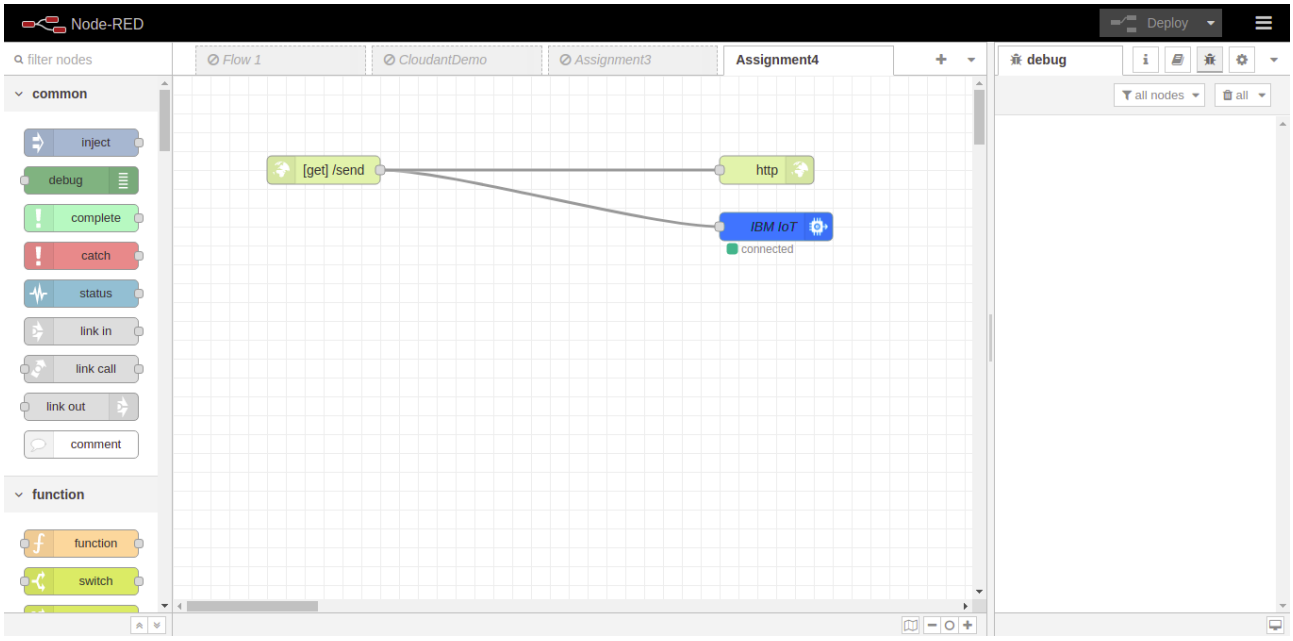
```
        print('Exiting ...\n')
    except KeyboardInterrupt:
        print('Exiting ...\n')
```

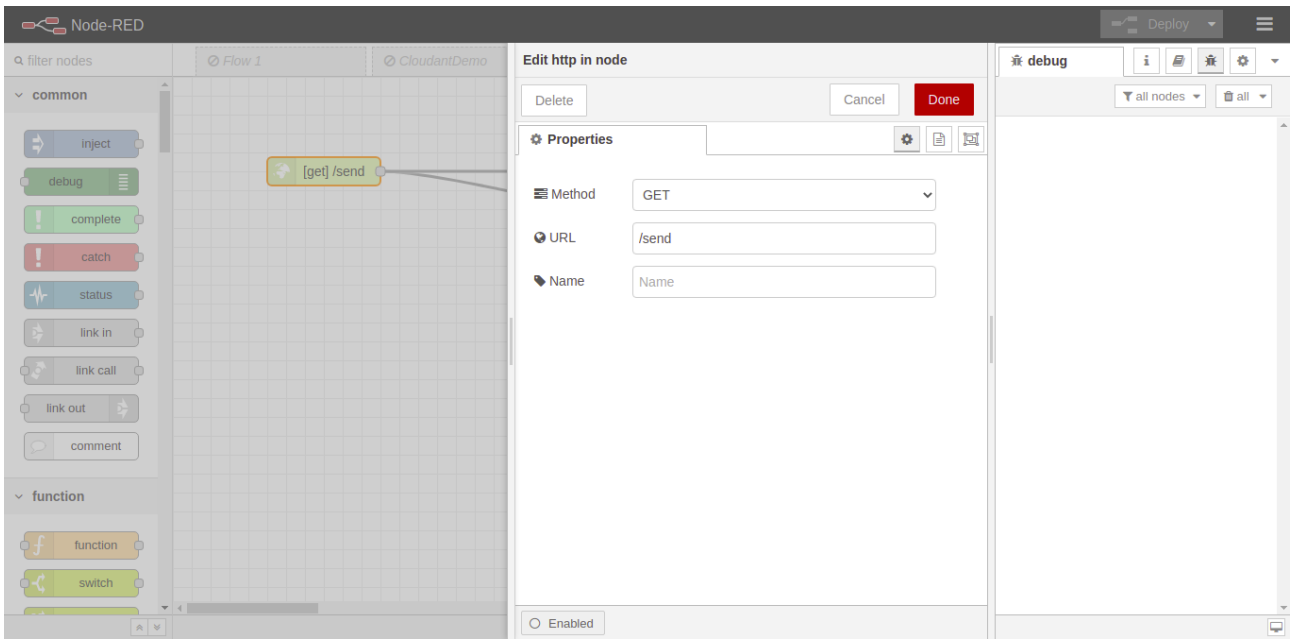
client.disconnect()

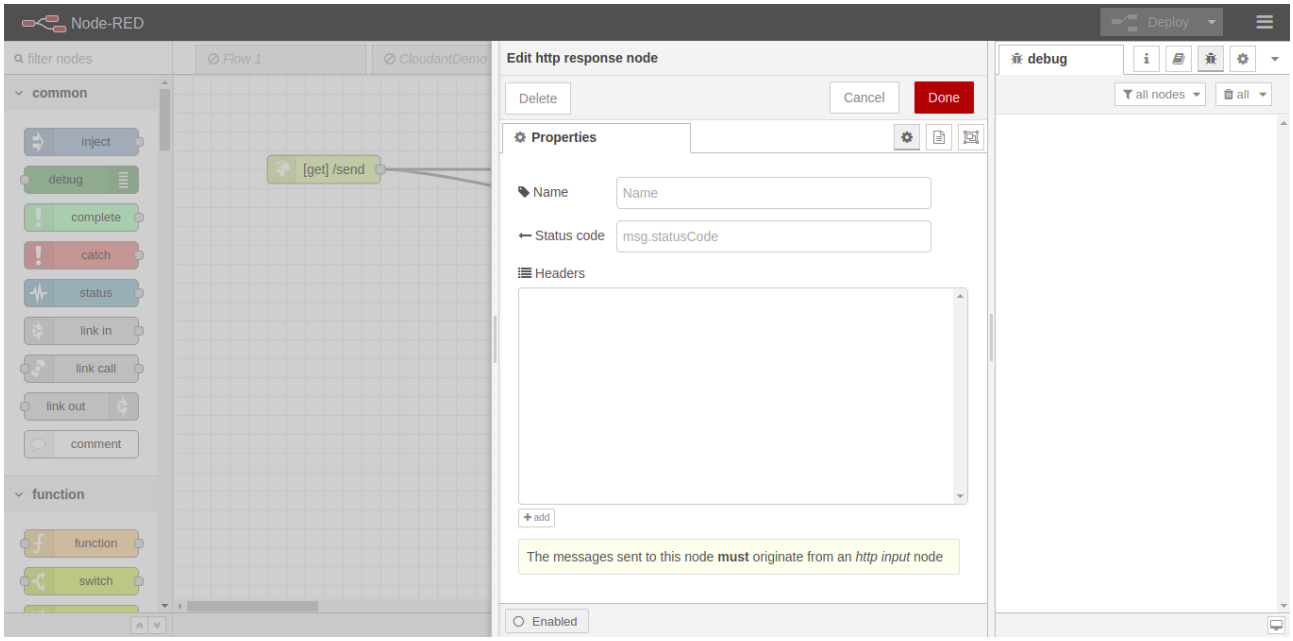
Working Screenshots :

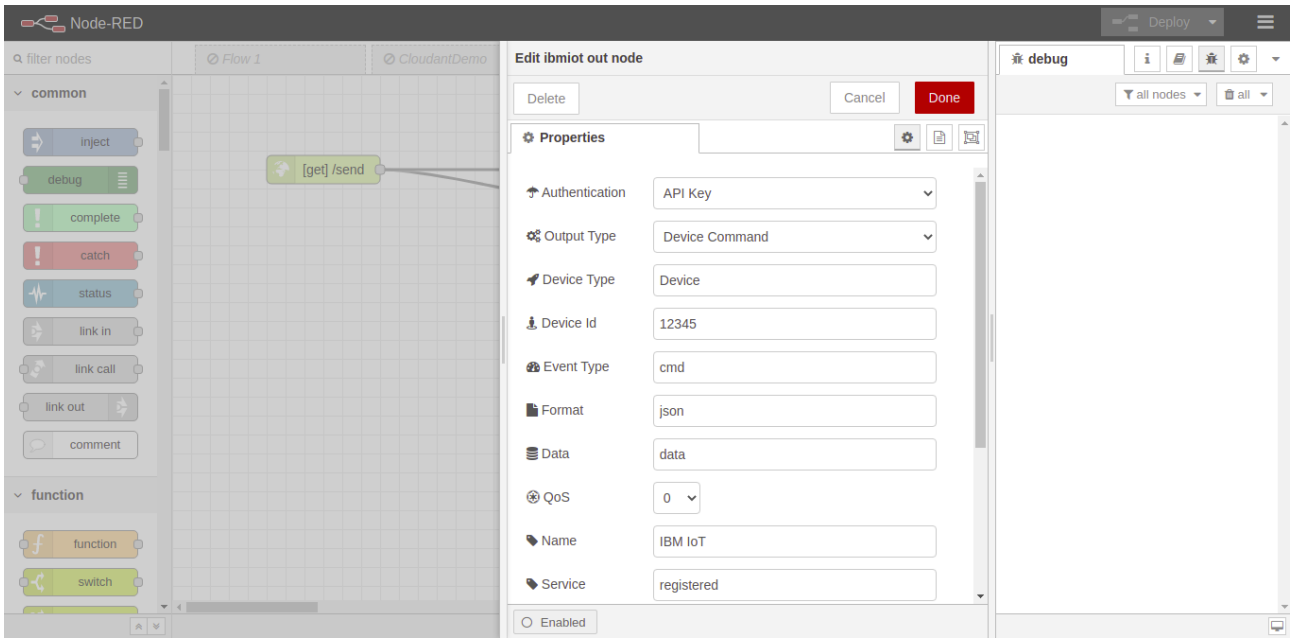



IoT_Assignment4
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
HorizontalArrangement1
Label1
TextBox1
Button1
Web1
Any component
Rename
Delete
Viewer
when Button1 .Click
do if length TextBox1 . Text > 2
then set Web1 . Url to join " https://node-red-xfgam-2021-12-07.mybluemix.net/... "
TextBox1 . Text
call Web1 .Get
0
0
Show Warnings


Node-RED
Deploy
filter nodes
Flow 1
CloudantDemo
Assignment3
Assignment4
debug
all nodes
all
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
[get] /send
http
IBM IoT
connected

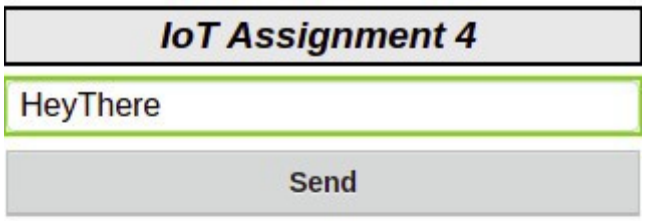

Node-RED
Deploy
filter nodes
Flow 1
CloudantDemo
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
[get] /send
Edit http in node
Delete
Cancel
Done
Properties
Method
GET
URL
/send
Name
Name
Enabled
debug
all nodes
all


Node-RED
Deploy
filter nodes
Flow 1
CloudantDemo
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
[get] /send
Edit http response node
Delete
Cancel
Done
Properties
Name
Name
Status code
msg.statusCode
Headers
add
The messages sent to this node must originate from an http input node
Enabled
debug
all nodes
all



{"command":"HeyThere"}

```
2021-12-10 21:13:37,101   wiotp.sdk.device.client.DeviceClient  INFO    Connecte
d successfully: d:cljthj:Device:12345
Device sent following message: 'HeyThere'
About to end...
Y to continue, else quit:
Exiting ...

2021-12-10 21:13:55,373   wiotp.sdk.device.client.DeviceClient  INFO    Disconne
cted from the IBM Watson IoT Platform
2021-12-10 21:13:55,374   wiotp.sdk.device.client.DeviceClient  INFO    Closed c
onnection to the IBM Watson IoT Platform
```


IoT Assignment 4
HeyThere
Send