

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": "bdxs69",
        "typeId": "Harshith",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

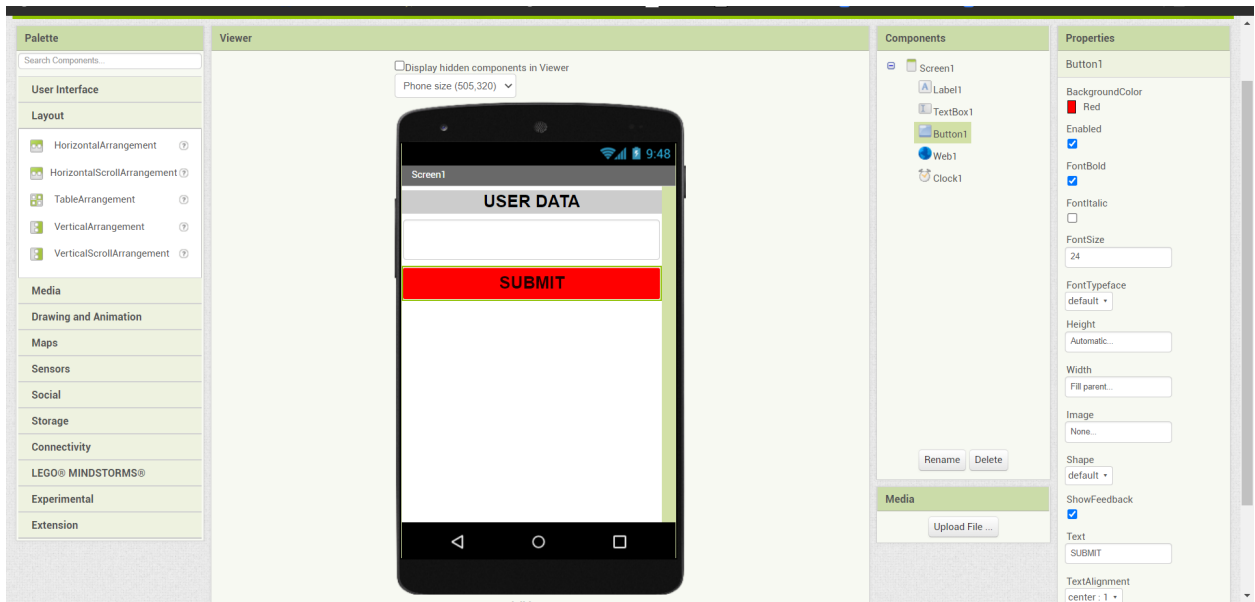
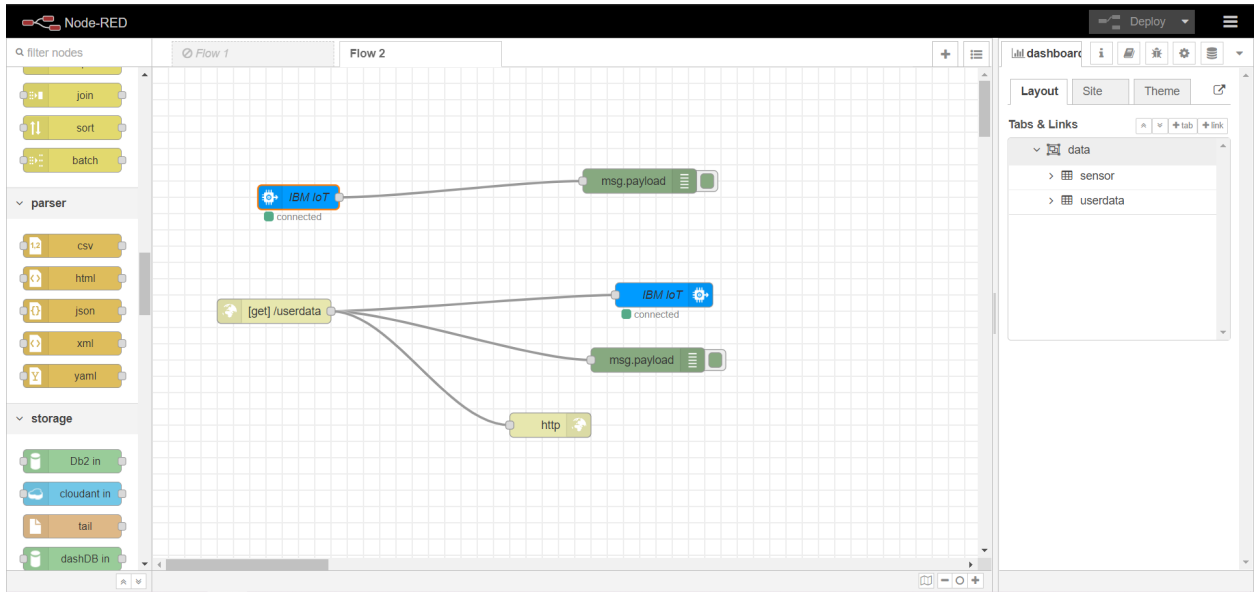
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

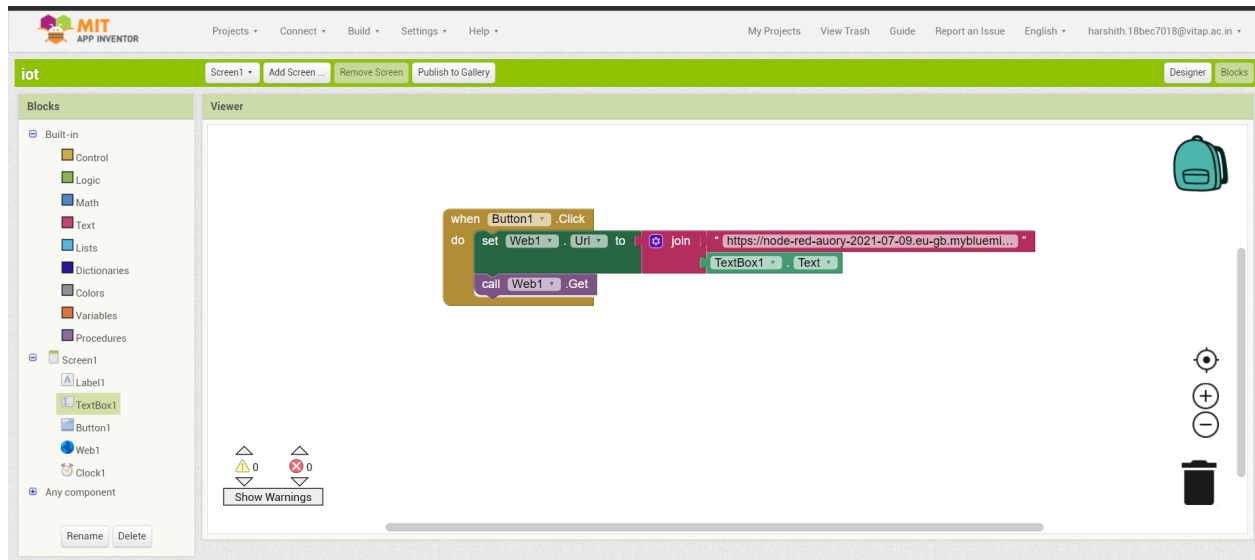
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:

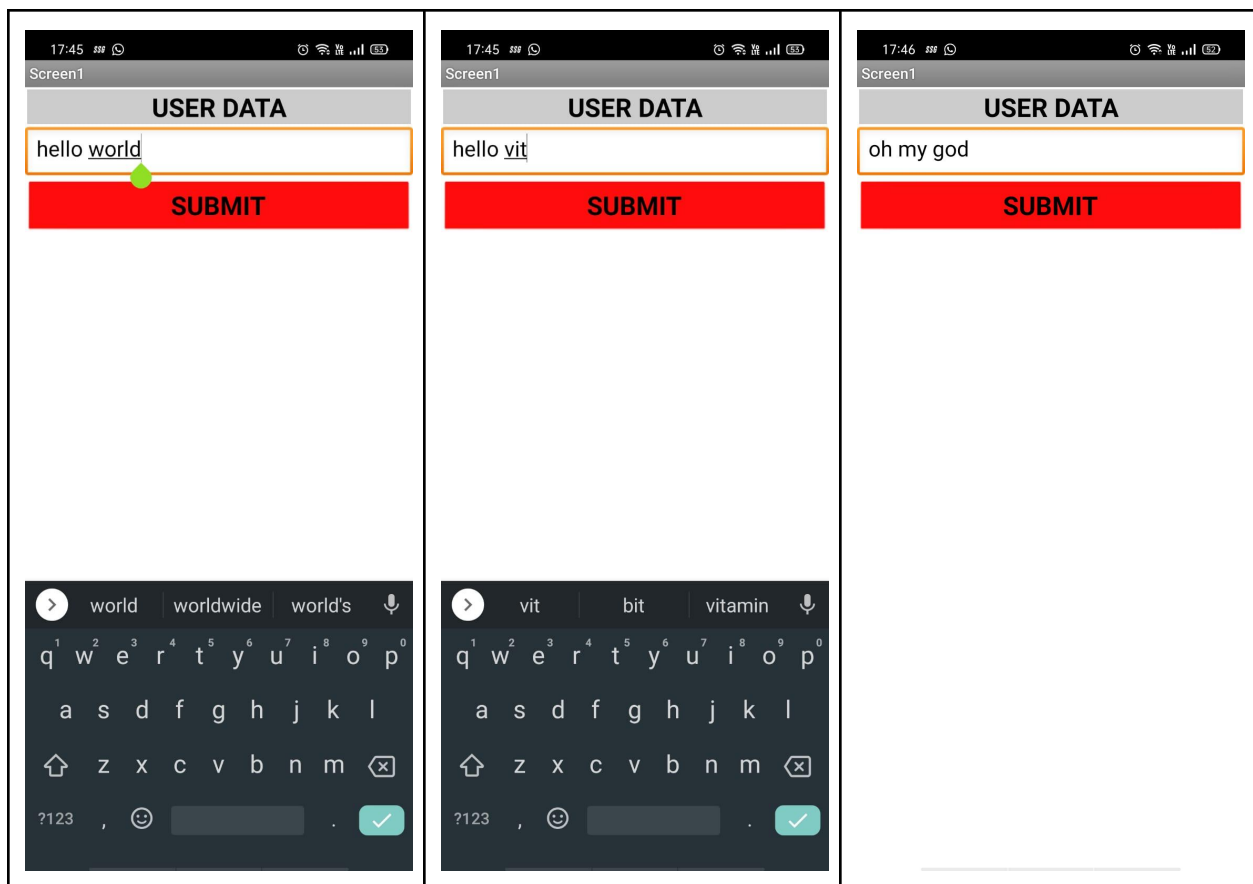
    client.commandCallback = myCommandCallback
    time.sleep(2)
    client.disconnect()
```

OUTPUT:

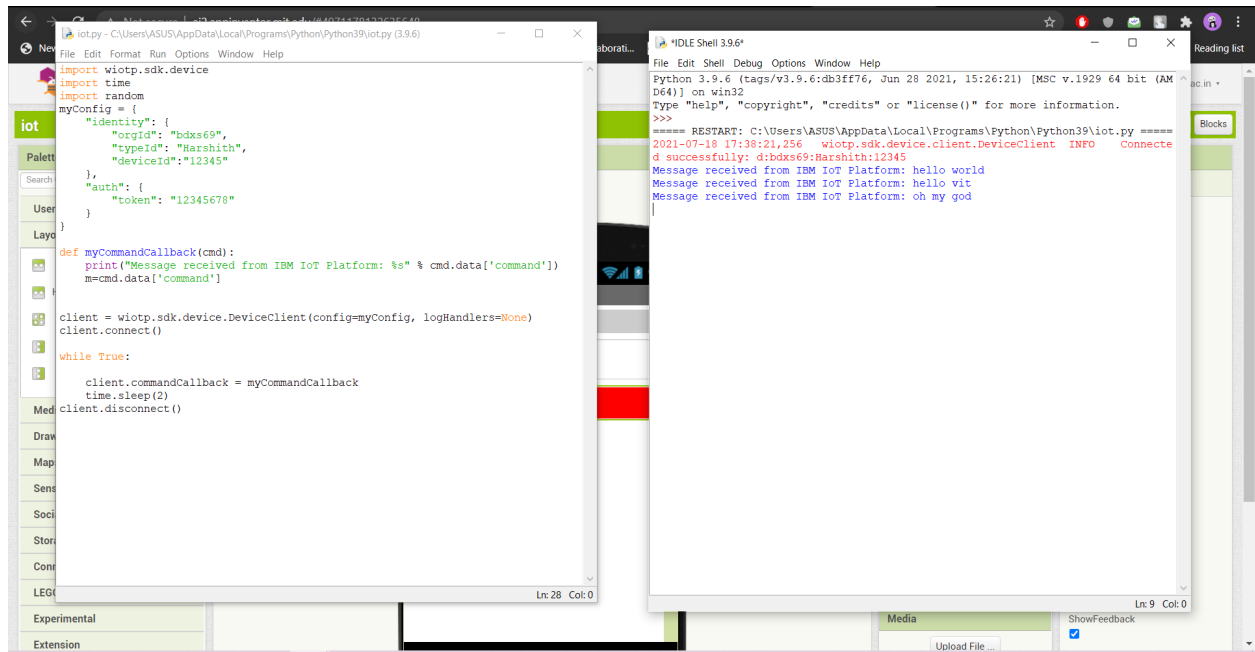




After building the application, give data from the phone to print in the python shell.



RESULT:



The screenshot shows a Python IDE with a code editor on the left and a terminal window on the right. The code editor contains a Python script for connecting to the IBM IoT Platform. The terminal window shows the output of the script, including the connection status and received messages.

```
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import time
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myConfig = {
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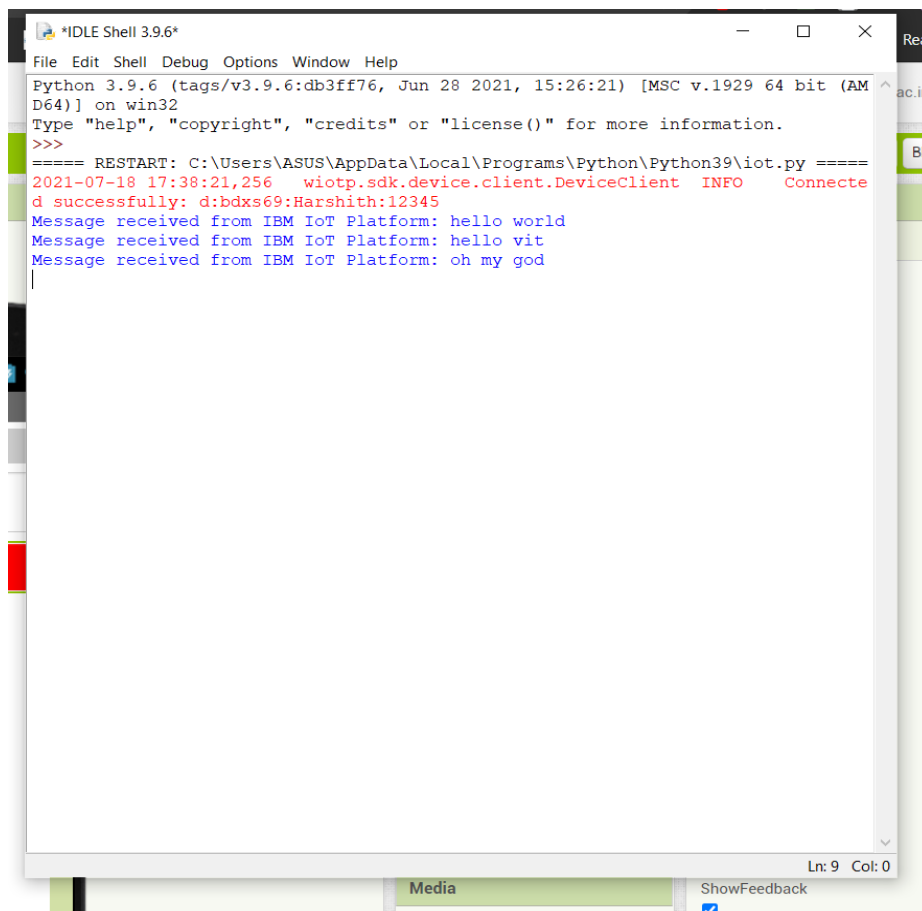
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    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

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

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

Terminal 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\ASUS\AppData\Local\Programs\Python\Python39\iot.py =====
2021-07-18 17:38:21,256 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:bdxs69:Harshith:12345
Message received from IBM IoT Platform: hello world
Message received from IBM IoT Platform: hello vit
Message received from IBM IoT Platform: oh my god
```



The screenshot shows a terminal window with the same output as the previous one, but with a different background color for the code editor.

```
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
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Message received from IBM IoT Platform: hello vit
Message received from IBM IoT Platform: oh my god
```