# VIT-IOT(INDUSTRY CERTIFICATE INTERNSHIP PROGRAM)

## **ASSIGNMENT-4**

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#### **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.

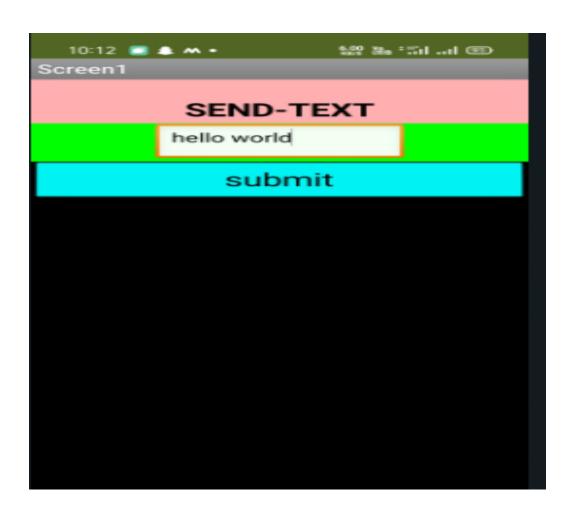
Keep a text box to accept the user input.integrate a submit button. whenever user enters the text input in text box and clicks the button the data should be sent to IBM cloud using URL(HTTP API).

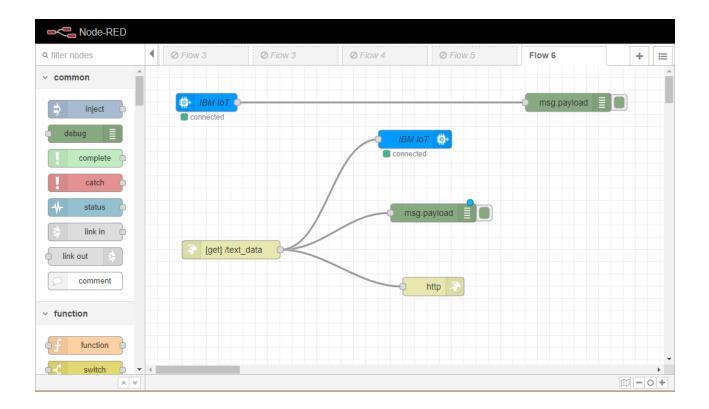
#### Fig.1Python code editor window

device development code.py - C:\Users\HP\OneDrive\Desktop\assignment\Assigment-4\device development code.py (3.9.6)
File Edit Format Run Options Window Help

```
import wiotp.sdk.device
import time
import random
myConfig = {
   "identity": {
       "orgId": "7jh6o2",
       "typeId": "VITDevice",
       "deviceId":"12345"
   },
   "auth": {
       "token": "12345678"
}
def myCommandCallback(cmd):
   print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
   client.commandCallback = myCommandCallback
   time.sleep(2)
client.disconnect()
```

#### **Python Code:**





**Fig3.**Node Red flow chart → In this The IBM IoT Node connects the Device with python code

**Fig.4.** UI block logic

### Fig6.Data received successfully to the Node Red debug window

```
2021-07-18 15:21:31,430 wiotp.sdk.device.client.DeviceClient INFO Connecte d successfully: d:d9cbnt:FirstDevice:14831

Message received from IBM IoT Platform: hello world

Message received from IBM IoT Platform: hello world
```

Fig.7. Python shell of Reciving Data

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