



VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY

INTERNET OF THINGS (IOT)

TOPIC

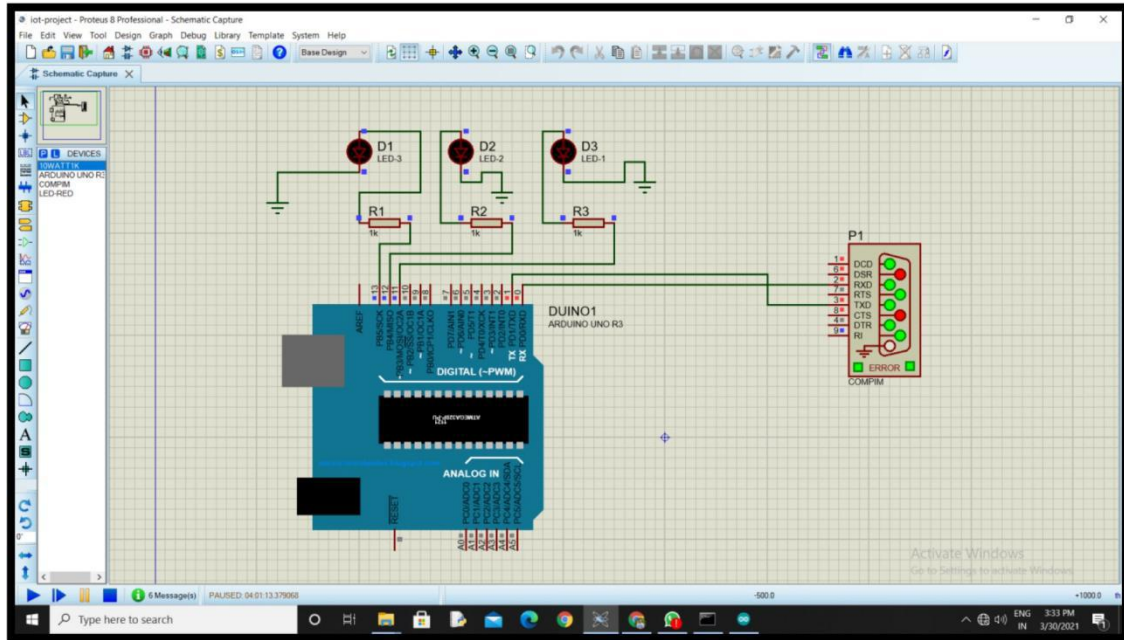
HOME AUTOMATION

Proteus stimulation steps for Home Automation

Steps 1- Lets setup Proteus Circuit

Required devices (Proteus Circuit) -

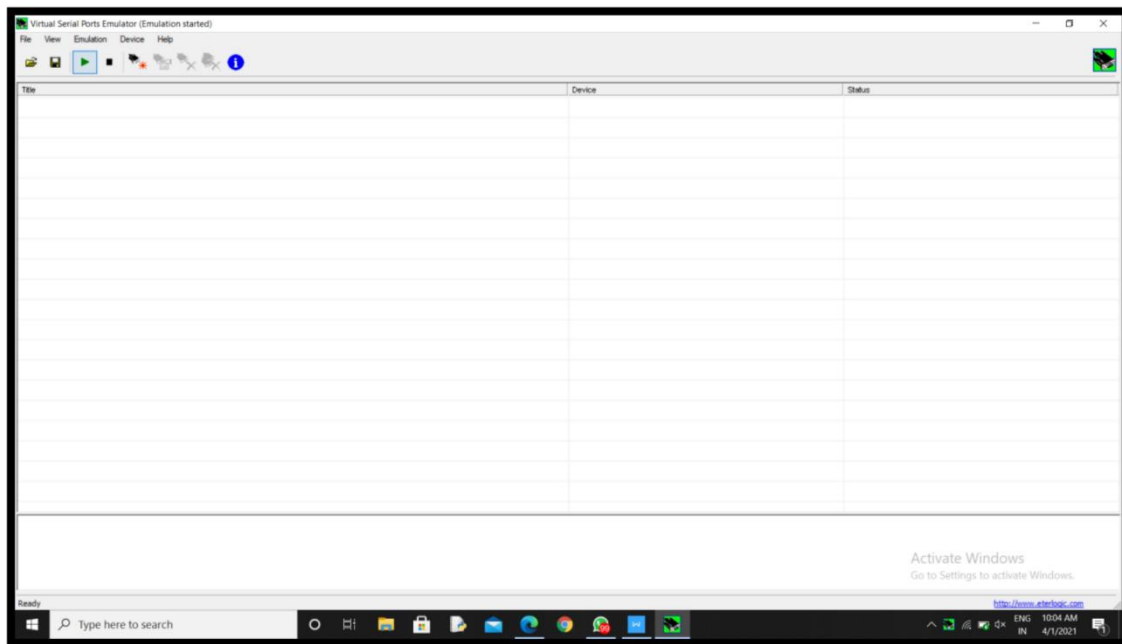
1. Arduino uno
2. compim
3. Led
4. Resistor
5. Ground

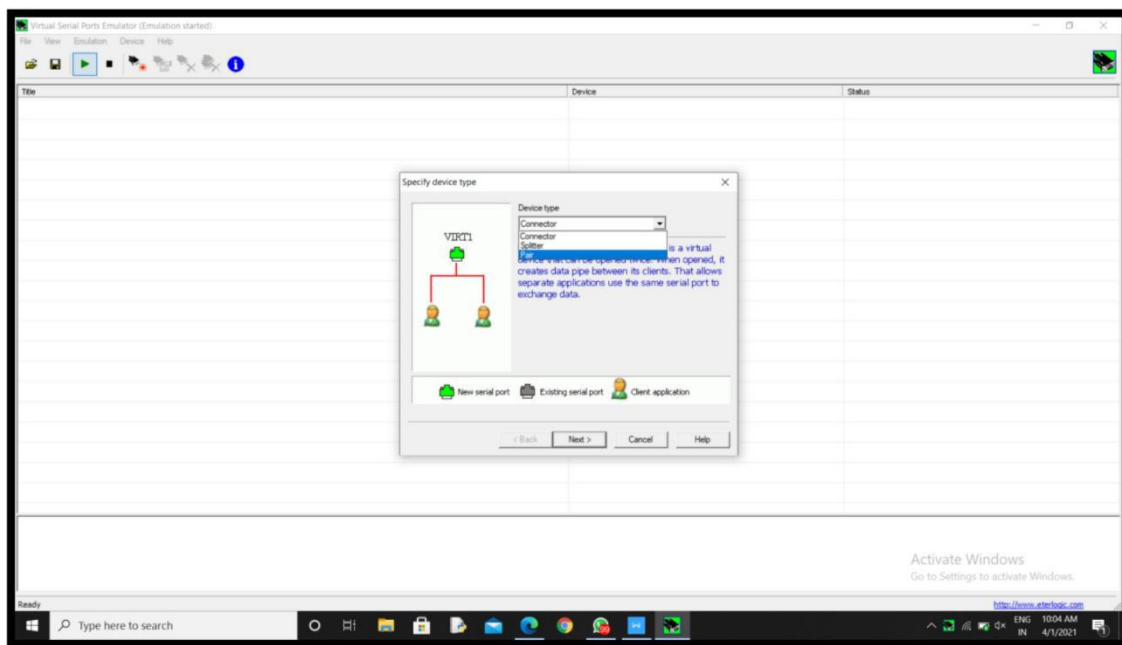
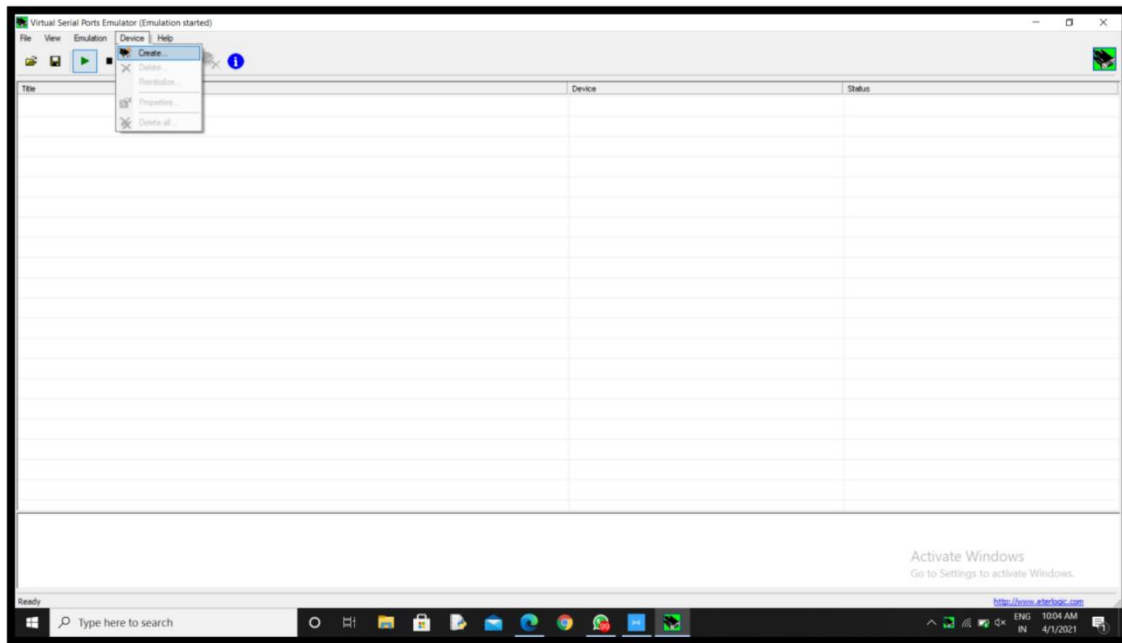


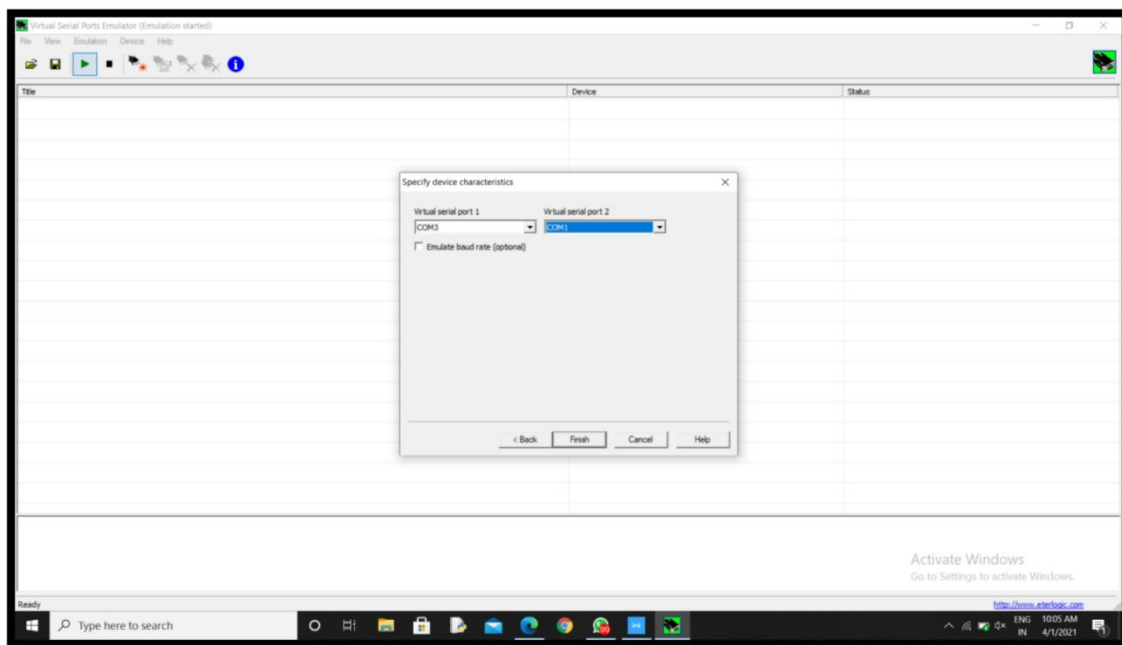
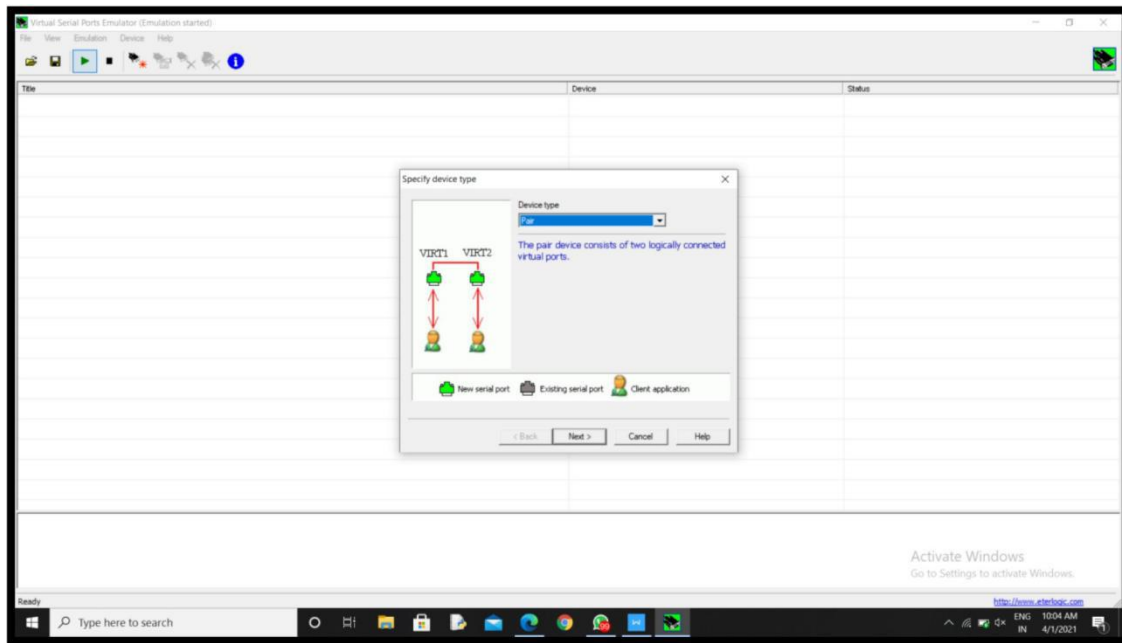
Step 2- Set up Virtual Serial Port Emulator

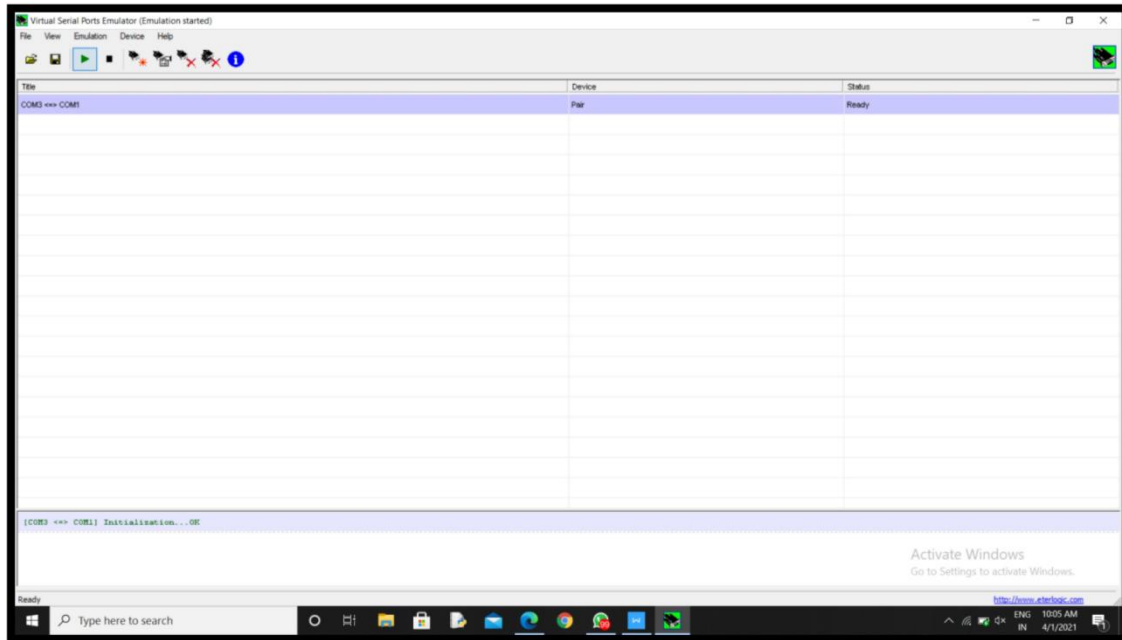
Software download link -virtual Serial ports Emulator <https://free-virtual-serial-ports-emu...>

Steps to setup virtual Serial ports Emulator (Refer screen shots)

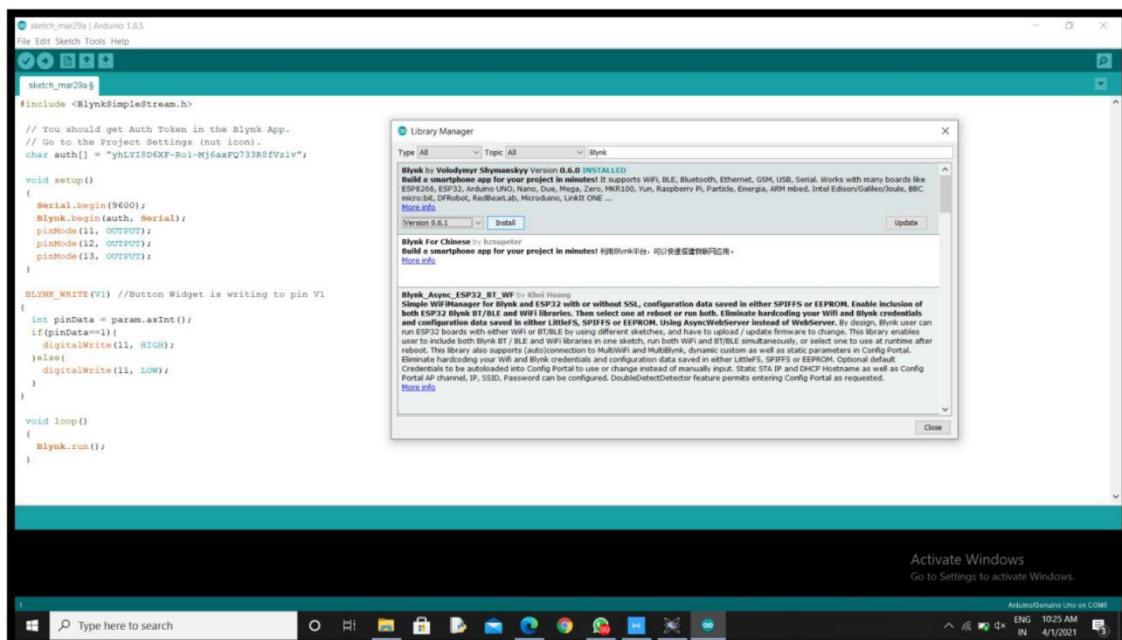






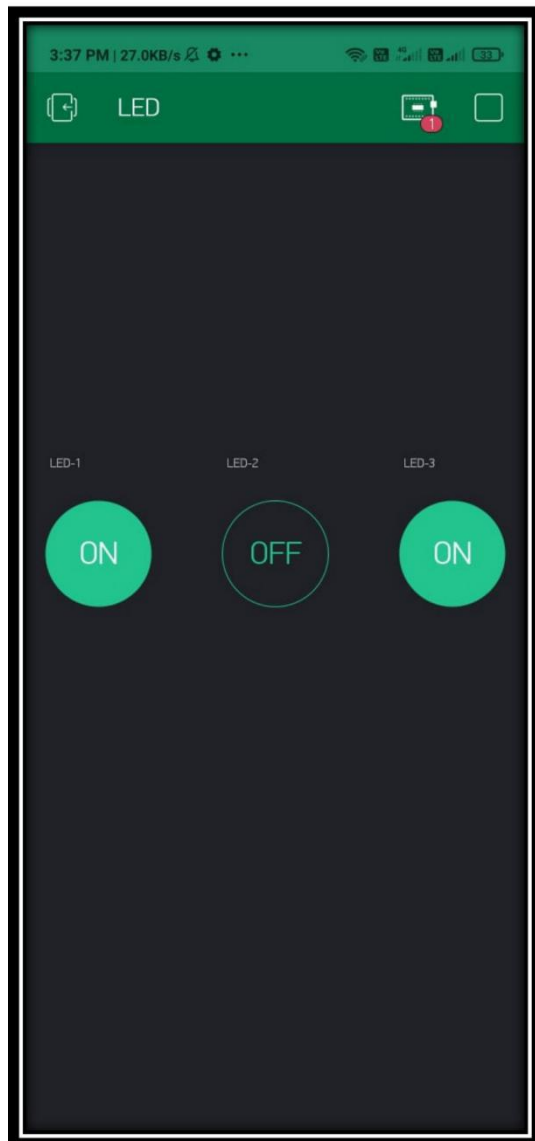


Step-3 Setup Arduino ide code - with Blynk Arduino Library

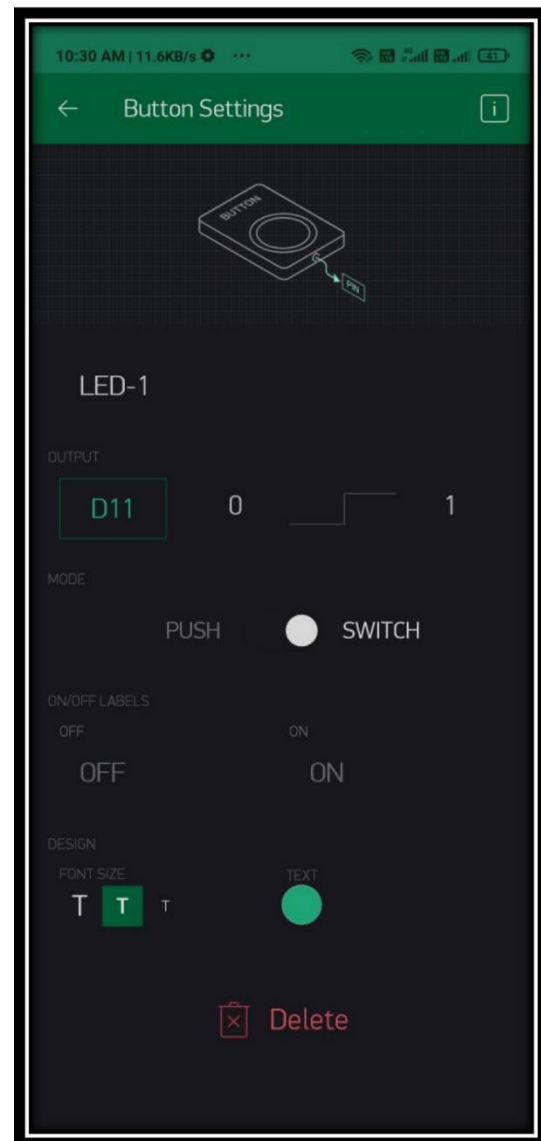


Step 4 - Blynk App in Your Phone

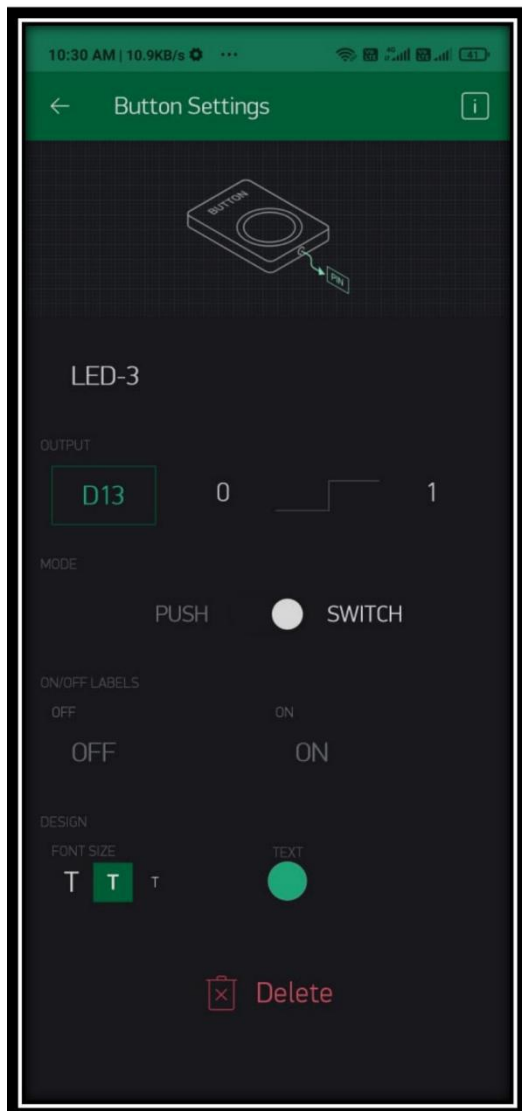
Setup ss for each LED and One App SS



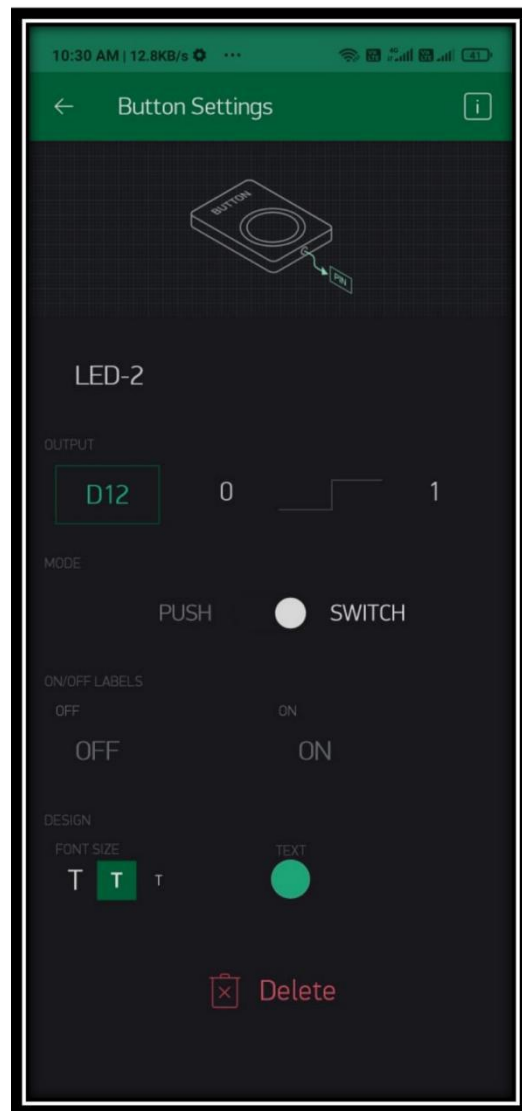
APP



LED-1



LED -3



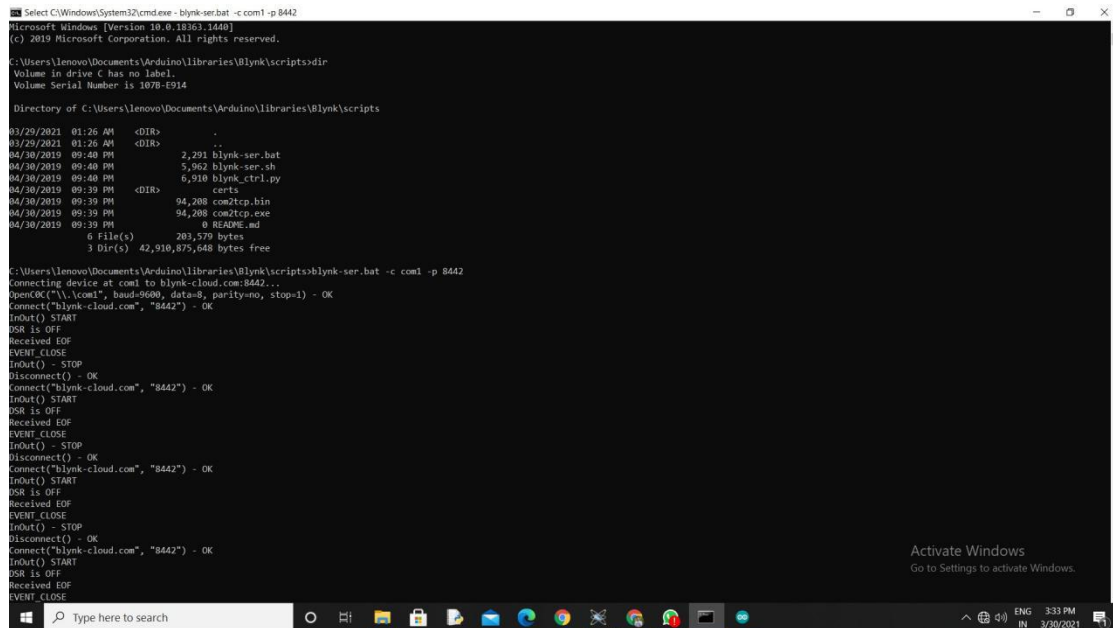
LED-2

Step 5- Blynk Server Setup

Open Cmd at **Documents\Arduino\libraries\Blynk\scripts** and run below commands-

1. dir

2. blynk-ser.bat -c COM1 -p 8442



```
Select C:\Windows\System32\cmd.exe - blynk-ser.bat -c com1 -p 8442
Microsoft Windows [Version 10.0.18363.1440]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\lenovo\Documents\Arduino\libraries\Blynk\scripts>dir
Volume in drive C has no label.
Volume Serial Number is 1078-E914

Directory of C:\Users\lenovo\Documents\Arduino\libraries\Blynk\scripts

03/29/2021  01:26 AM    <DIR>          .
03/29/2021  01:26 AM    <DIR>          ..
04/30/2019  09:40 PM             2,291 blynk-ser.bat
04/30/2019  09:40 PM             5,962 blynk-ser.sh
04/30/2019  09:40 PM             6,910 blynk_ctrl.py
04/30/2019  09:39 PM    <DIR>          certs
04/30/2019  09:39 PM             94,208 com2tcp.bin
04/30/2019  09:39 PM             94,208 com2tcp.exe
04/30/2019  09:39 PM              0 README.md
               6 File(s)          203,579 bytes
               3 Dir(s)          42,910,875,648 bytes free

C:\Users\lenovo\Documents\Arduino\libraries\Blynk\scripts>blynk-ser.bat -c com1 -p 8442
Connecting device at com1 to blynk-cloud.com:8442...
OpenOC("\\.\com1", baud=9600, data=8, parity=no, stop=1) - OK
Connect("blynk-cloud.com", "8442") - OK
InOut() START
DSR is OFF
Received EOF
EVENT_CLOSE
InOut() - STOP
Disconnect() - OK
Connect("blynk-cloud.com", "8442") - OK
InOut() START
DSR is OFF
Received EOF
EVENT_CLOSE
InOut() - STOP
Disconnect() - OK
Connect("blynk-cloud.com", "8442") - OK
InOut() START
DSR is OFF
Received EOF
EVENT_CLOSE
InOut() - STOP
Disconnect() - OK
Connect("blynk-cloud.com", "8442") - OK
InOut() START
DSR is OFF
Received EOF
EVENT_CLOSE
```

All Done Now paste your Blynk Authentication ID in your Arduino code and run proteus circuit.

Enjoy!