

CO326 - Industrial Networks

Lab 02 - Serial Port I/O

Group 11

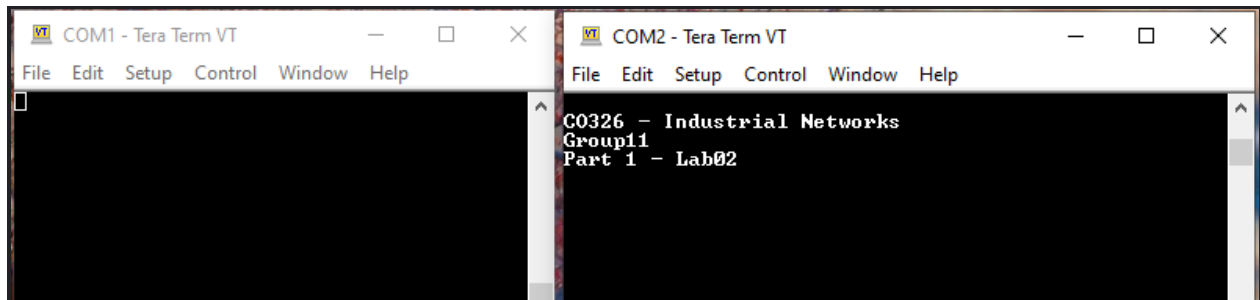
5th February 2022

E/17/212 - Morais K.W.G.A.N.D. | E/17/219 NAWARATHNA K.G.I.S. | E/17/230 NISHANKAR S.

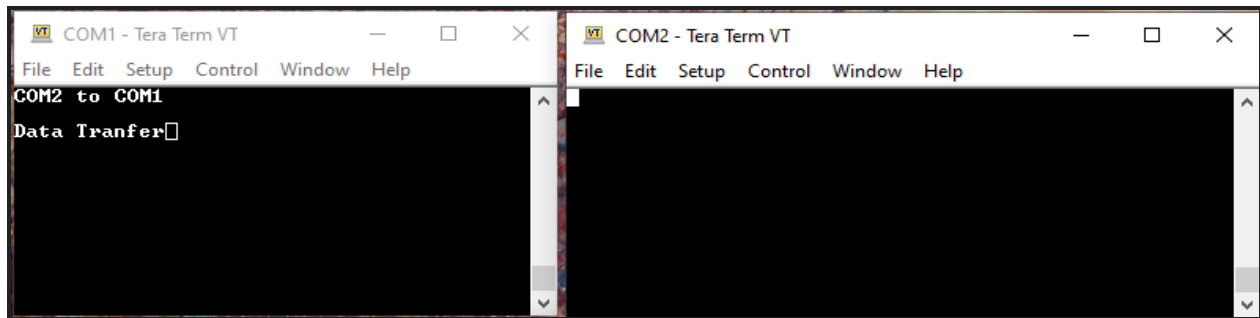
Part 1

I. Serial data (text) transfer between two virtual ports with two Tera Term terminals.

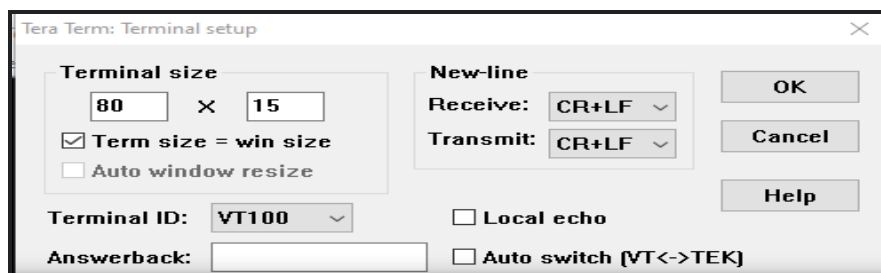
COM1 to COM2



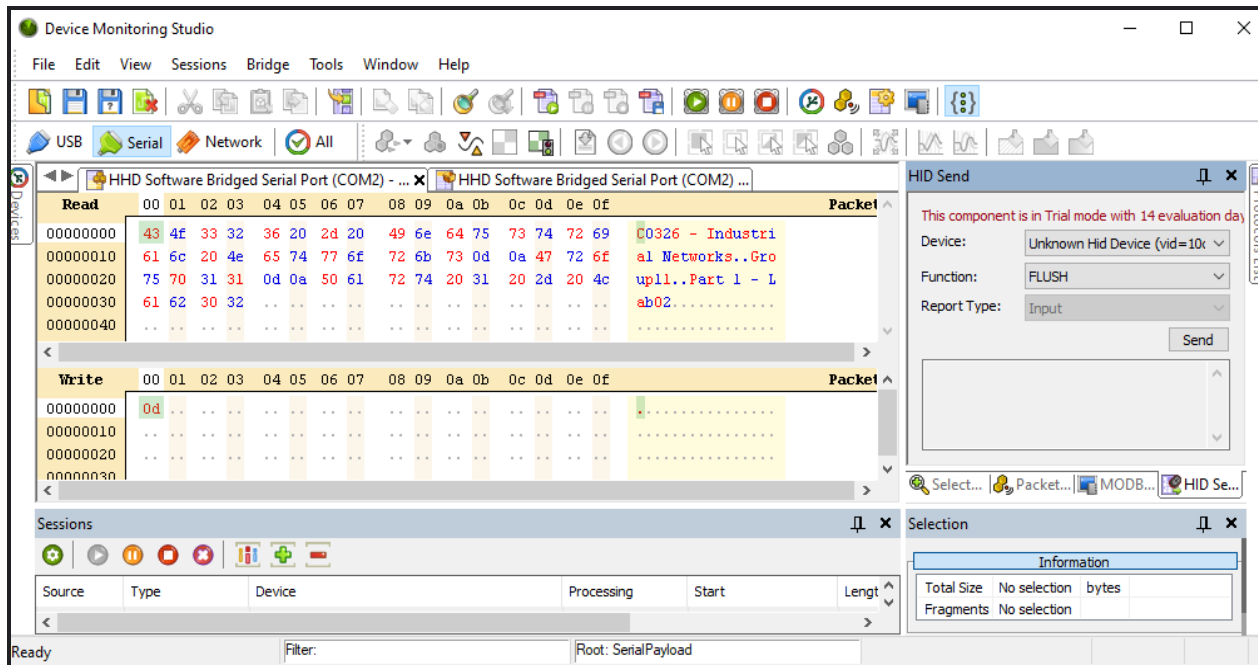
COM2 to COM1



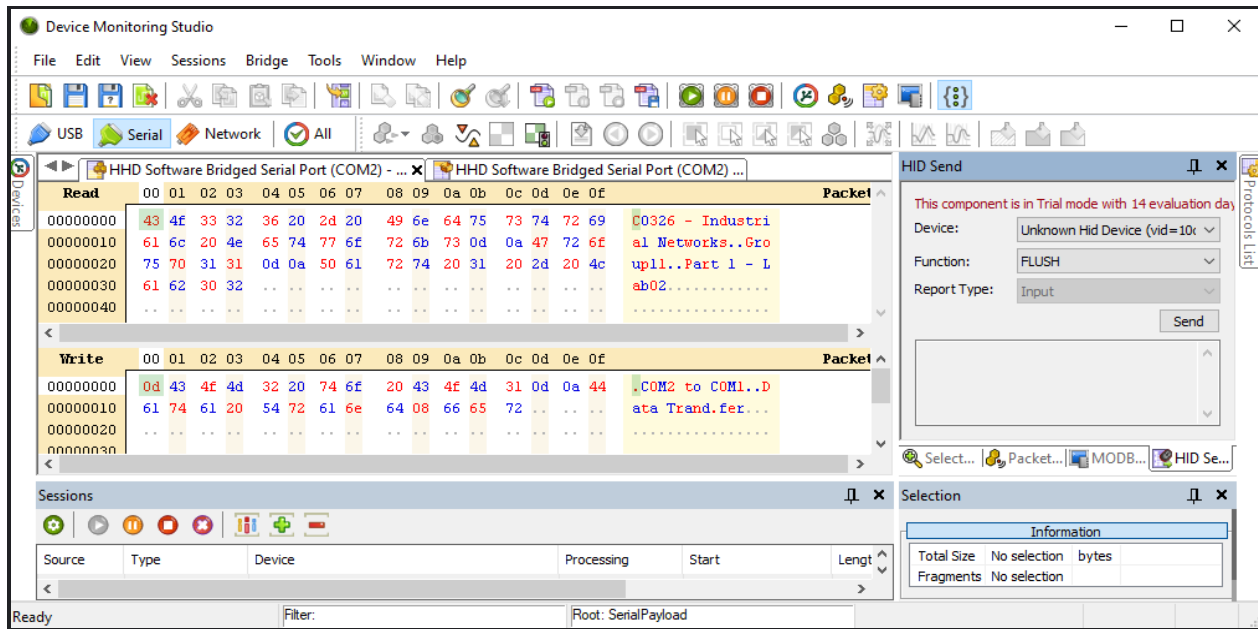
When entering a new line on the terminal, it is not received properly. Therefore, it has to be changed 'CR' to 'CR+LF' in new line settings.



II. Output of the monitoring tool when the above data transferring occurs. COM1 to COM2



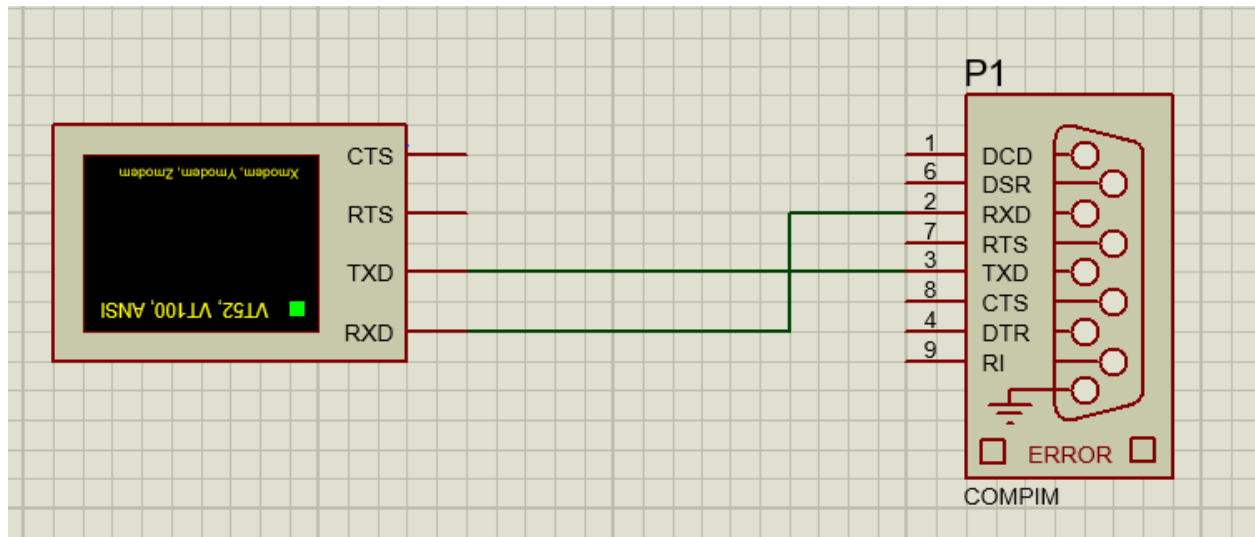
COM2 to COM1



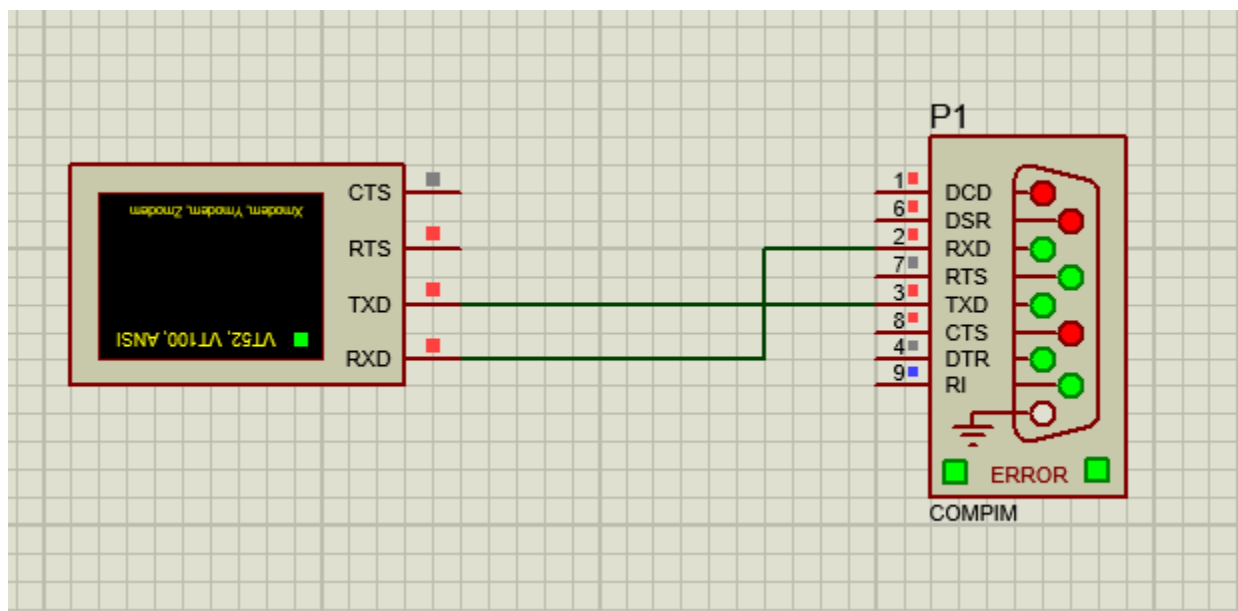
Part 2

I. The proteus setup

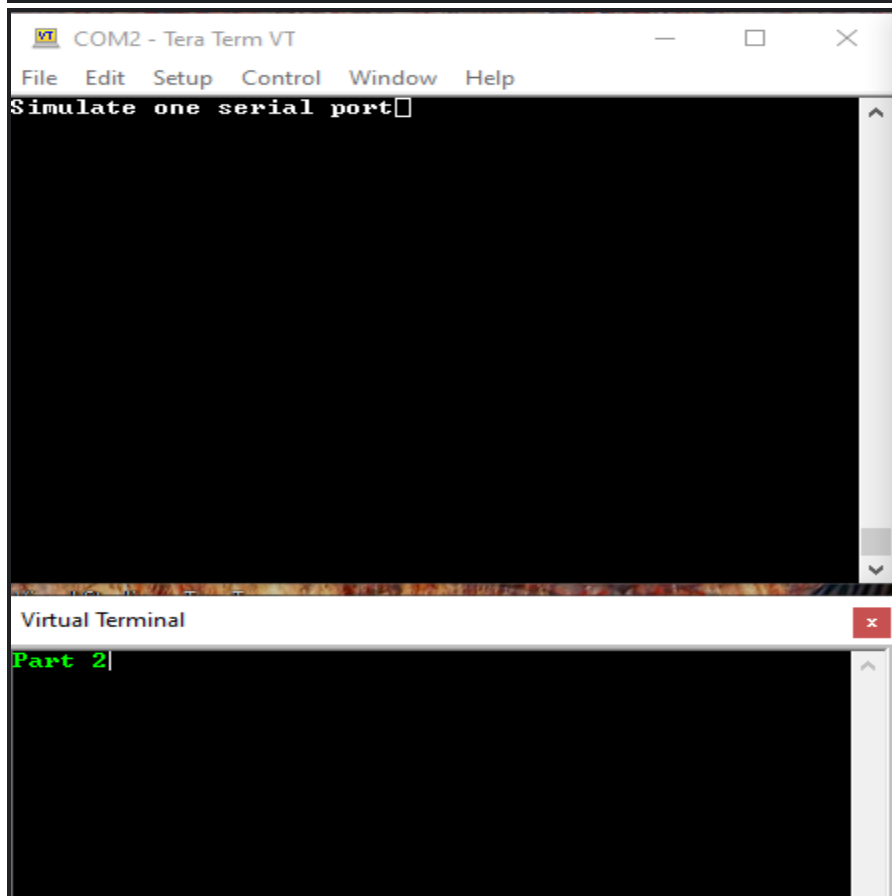
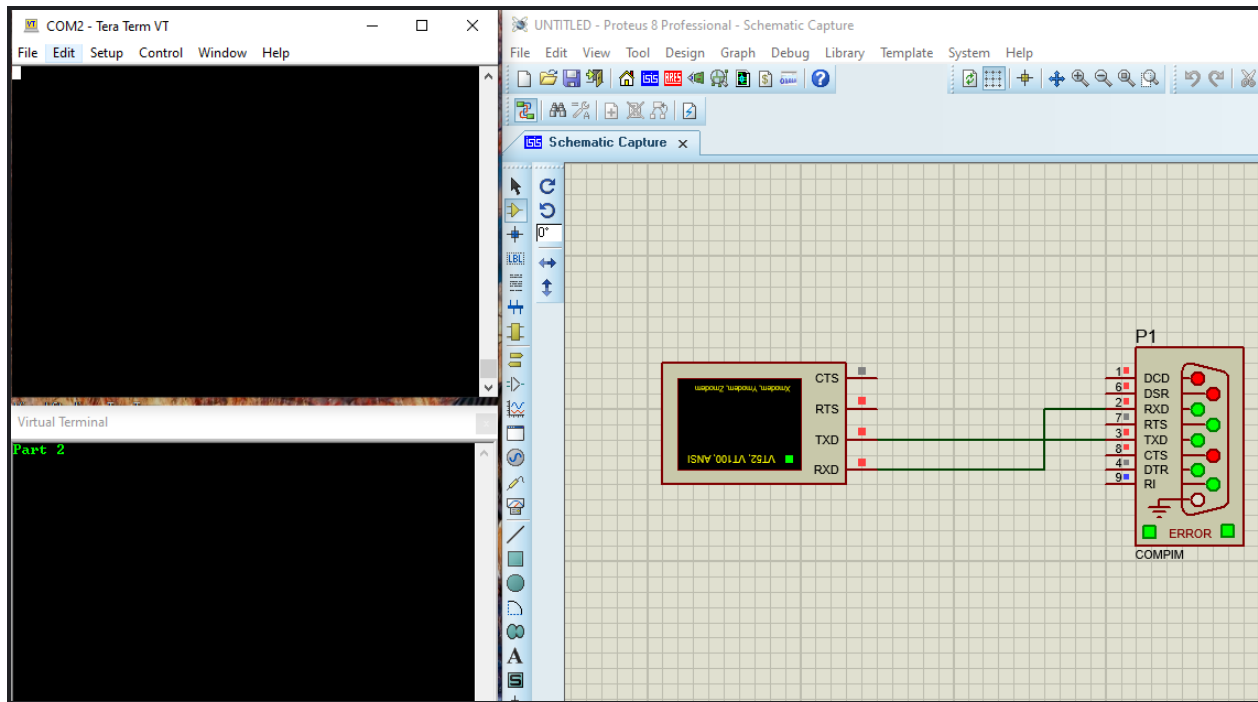
Before the simulation



After the simulation

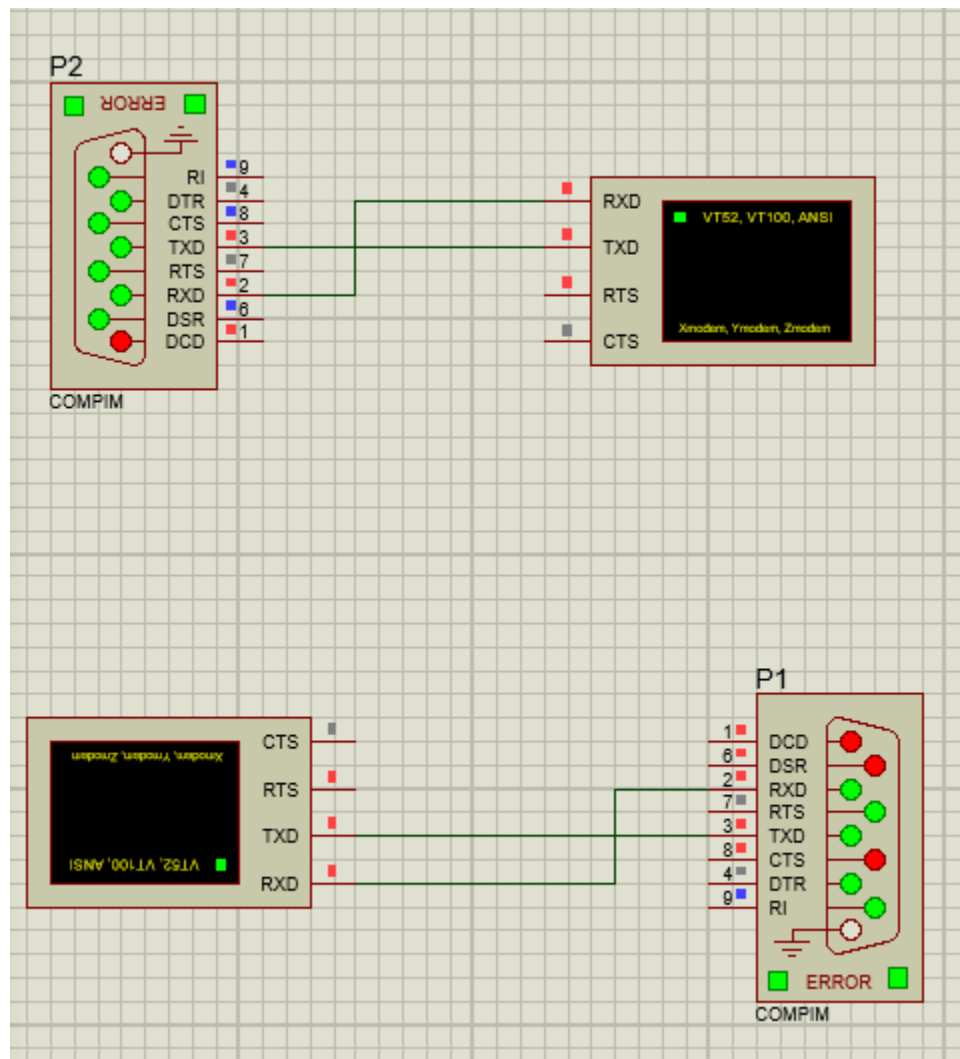


II. Serial data (text) transfer between two virtual ports performed with Tera Term terminal and virtual terminal in Proteus

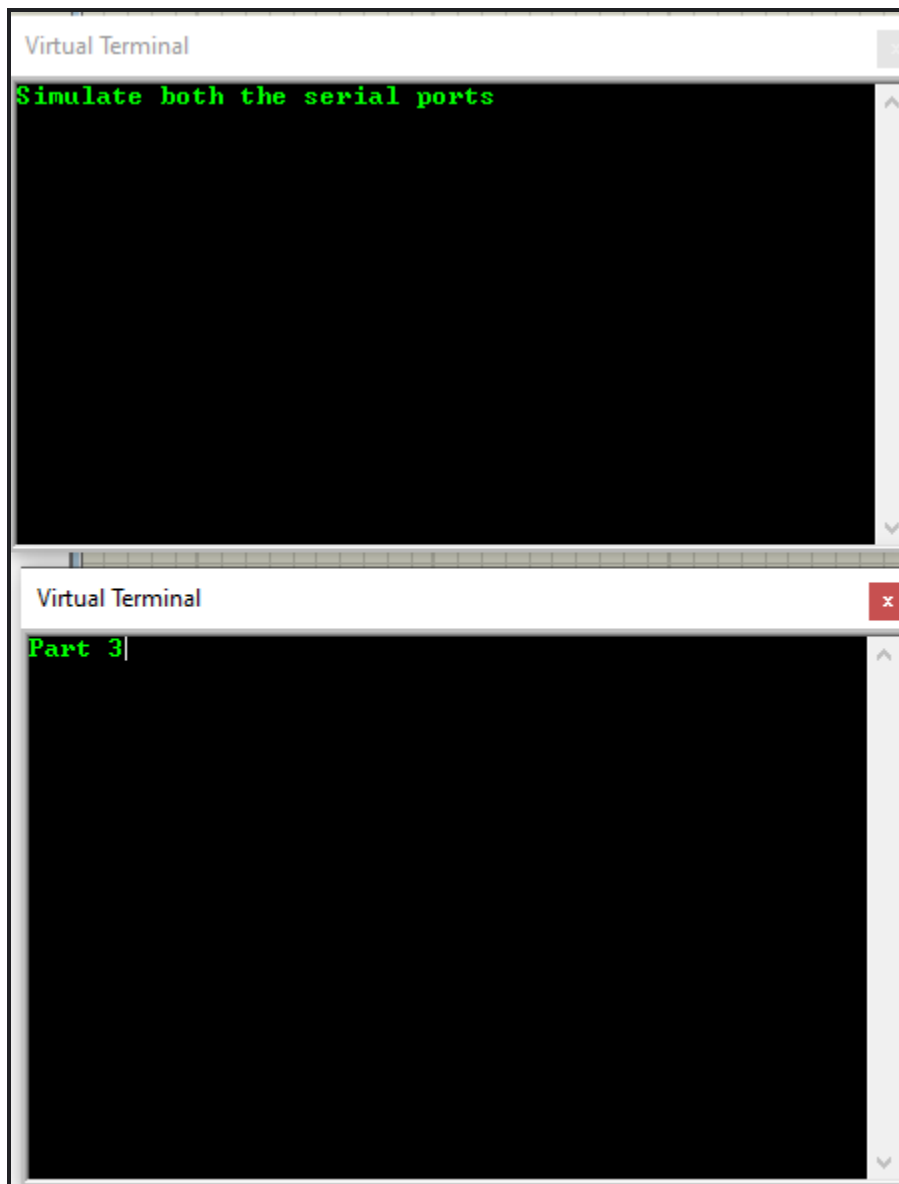


Part 3

I. The proteus setup

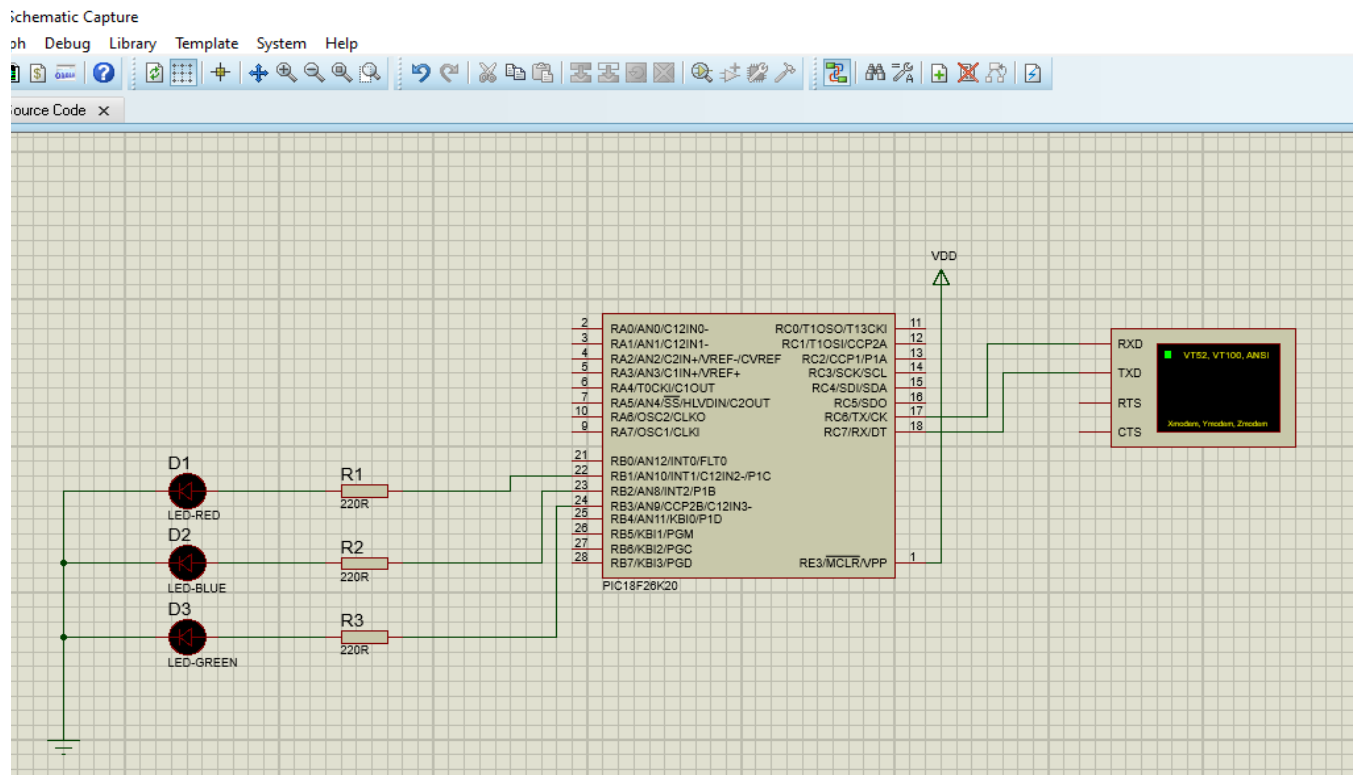


II. Serial data (text) transfer between two virtual ports performed with two virtual terminals in Proteus.



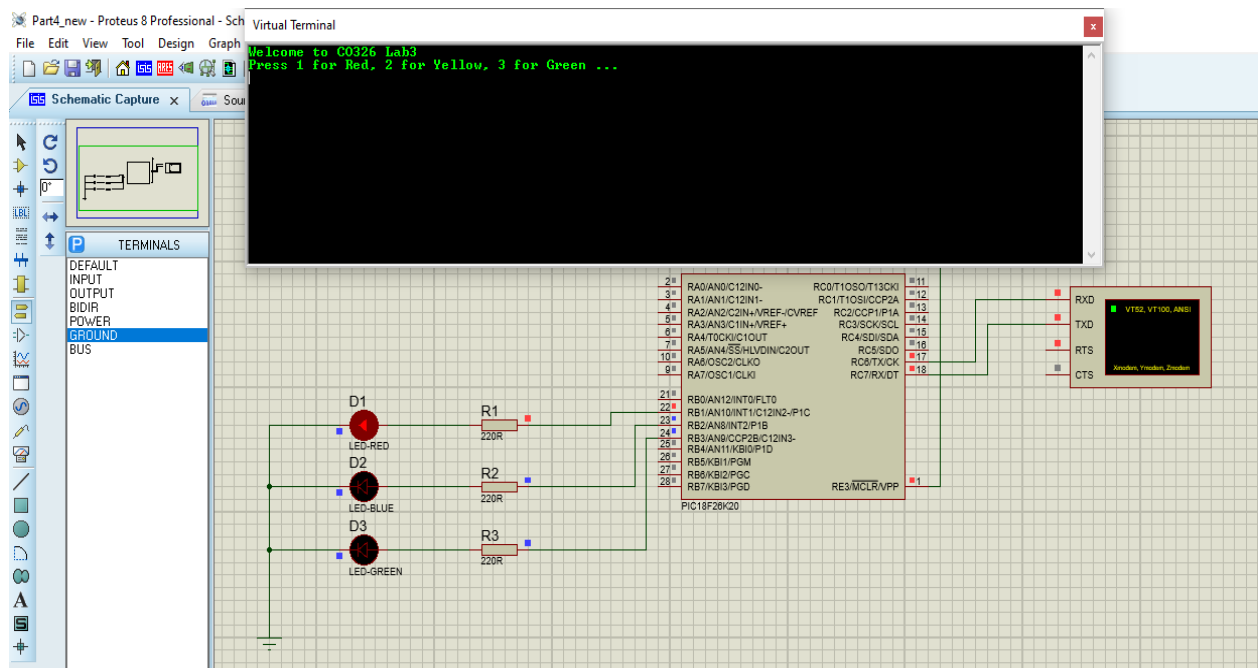
Part 4

I. The proteus setup

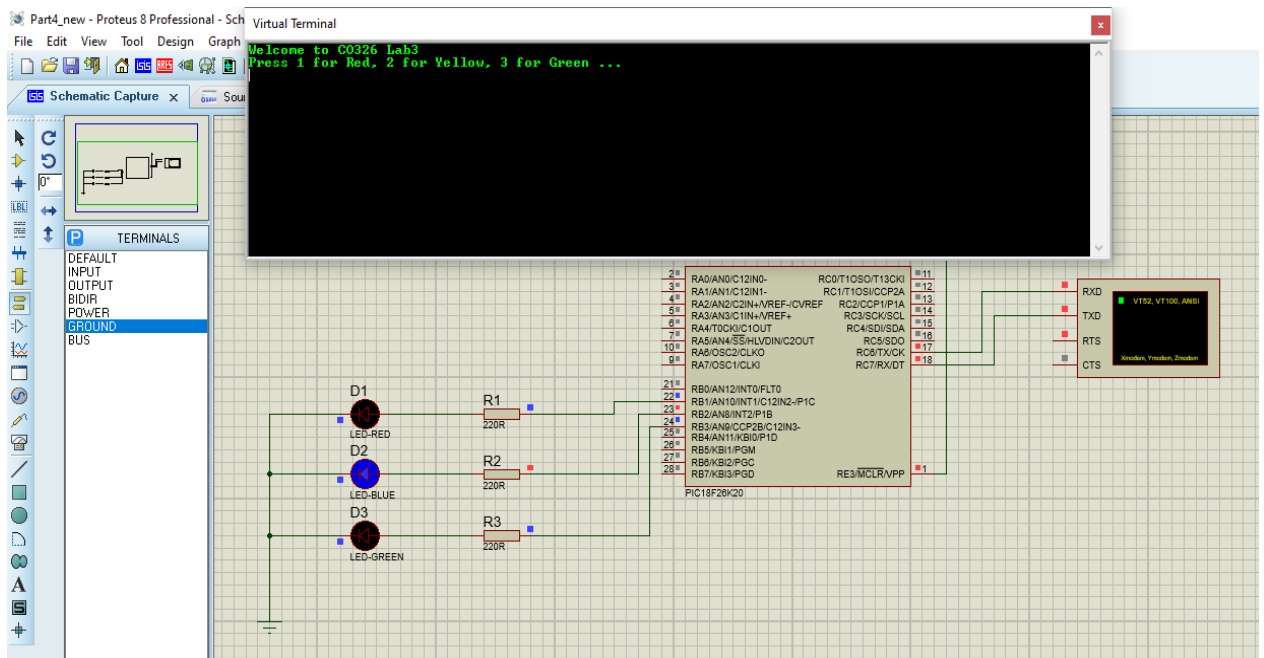


II. The proteus setup all stages LEDs (lighting, not lighting)

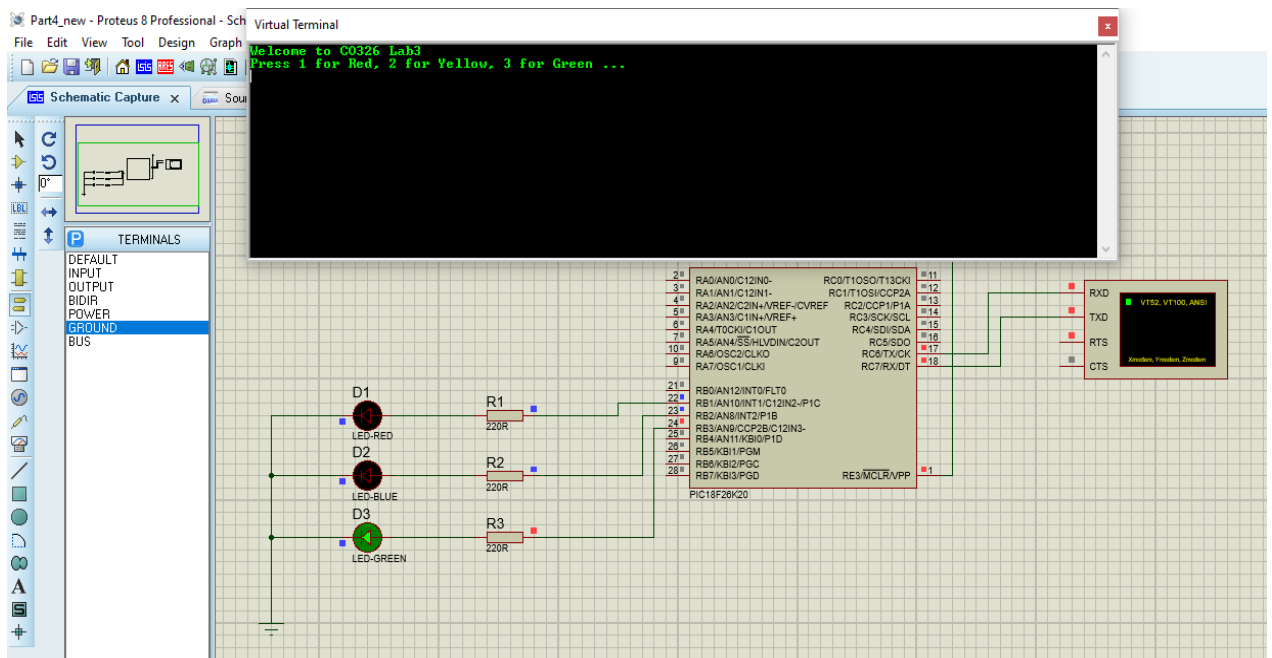
1. Lighting Red Light



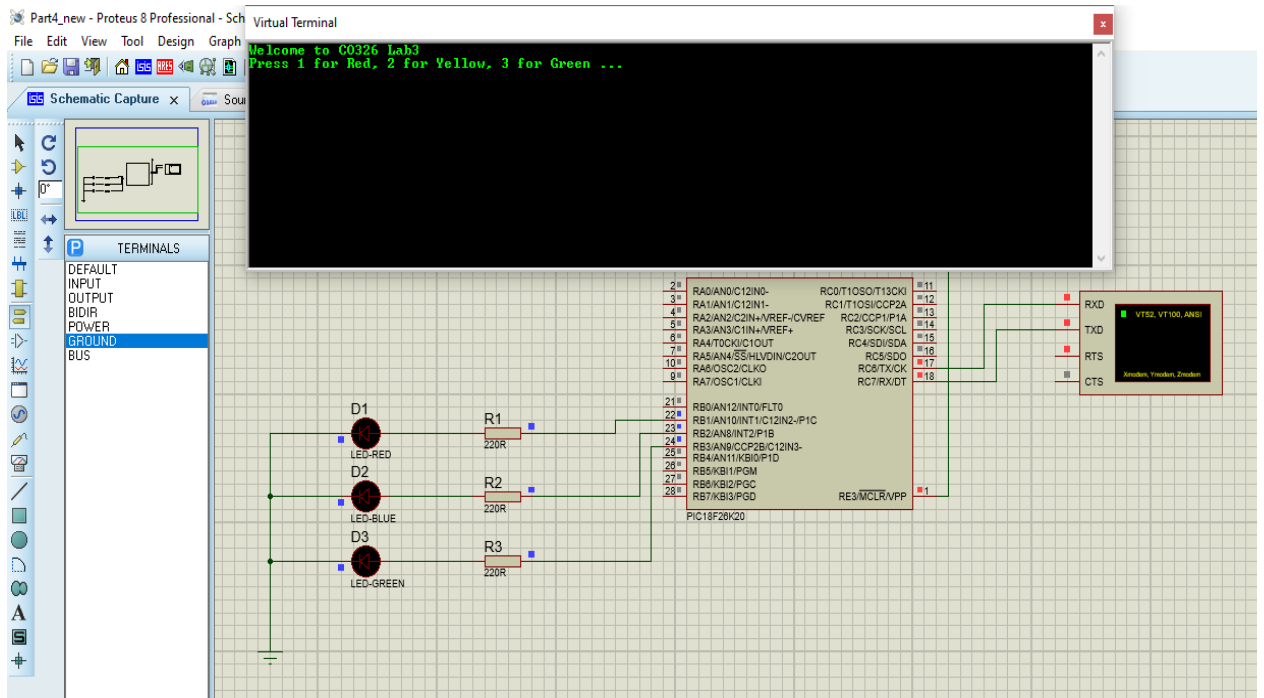
2. Lighting Blue Light



3. Lighting Green Light

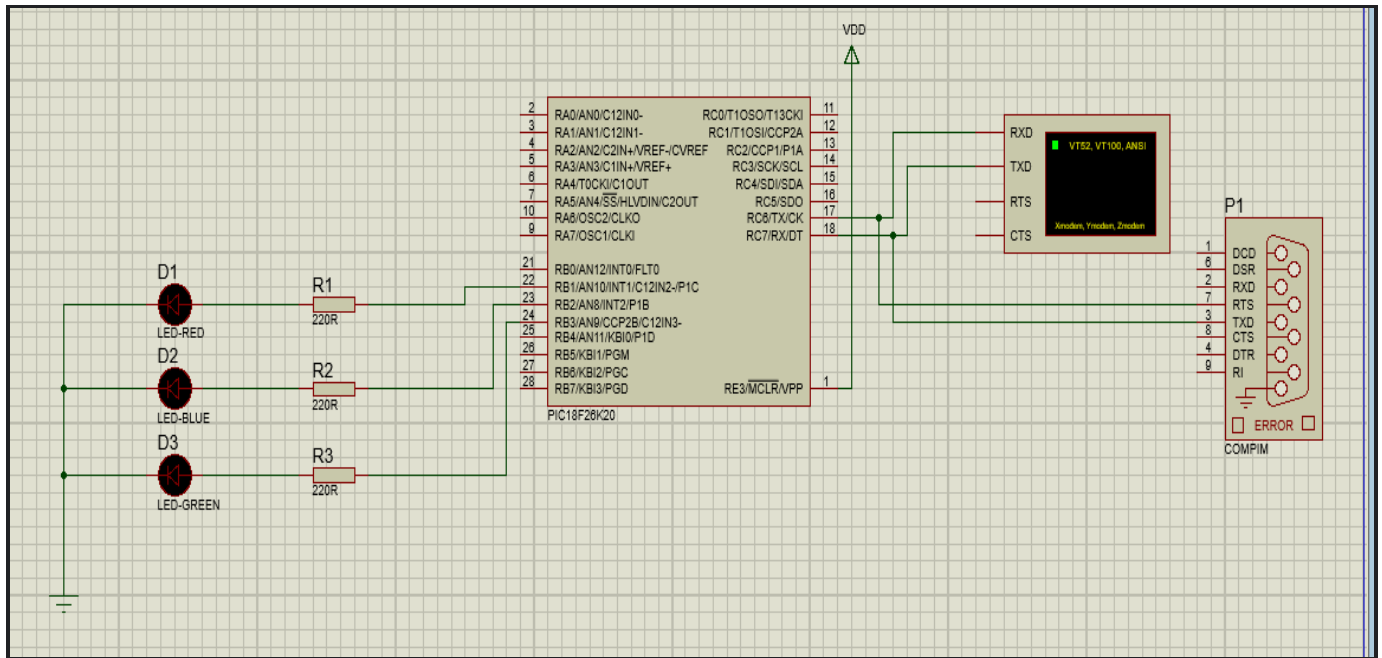


4. All lights are off



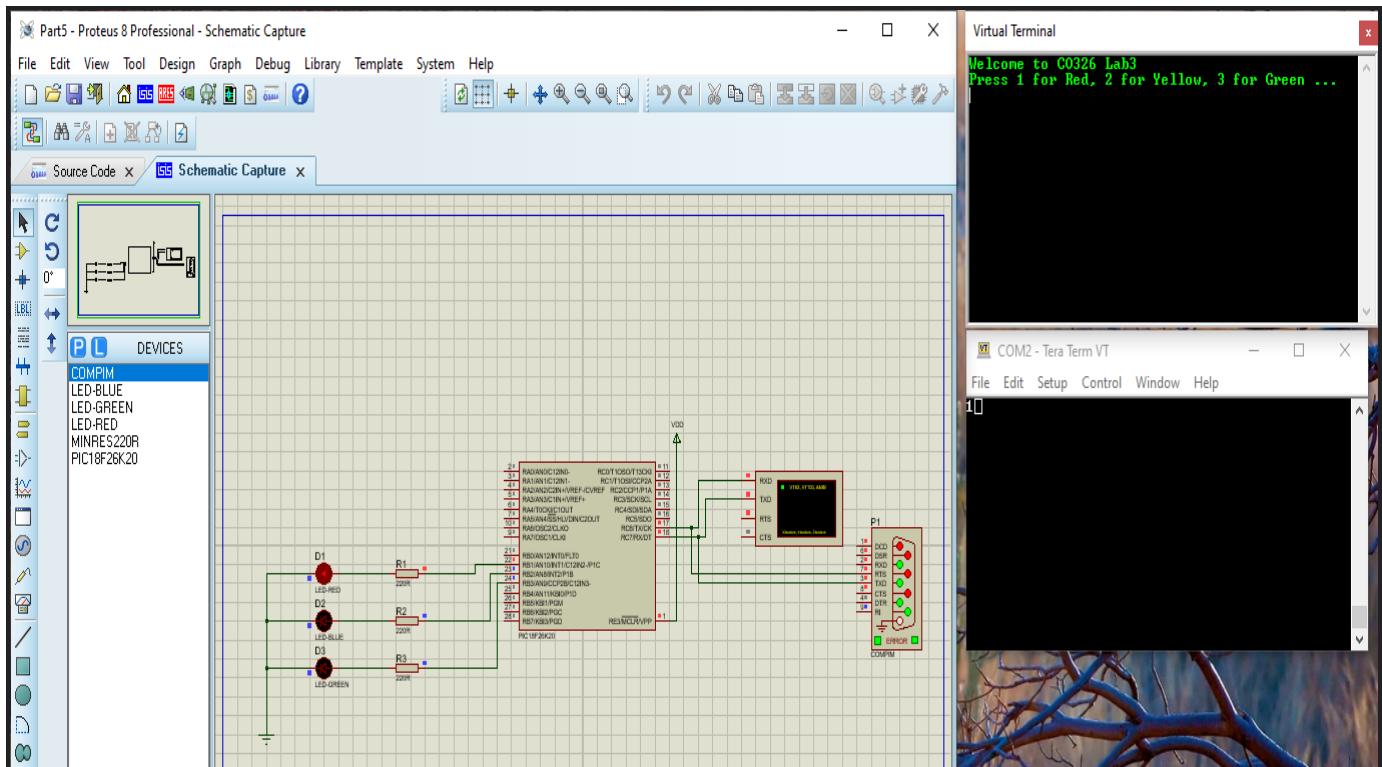
Part 5

I. The proteus setup

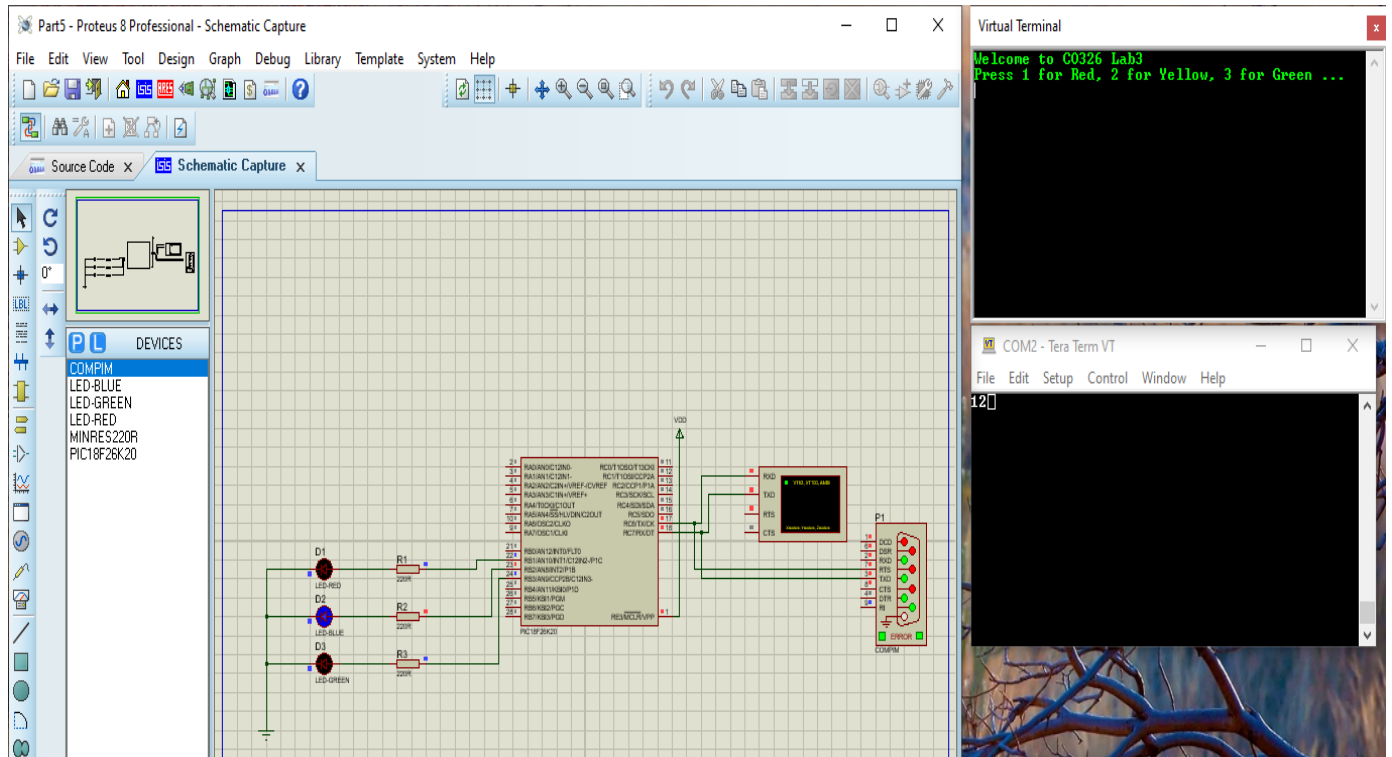


II. Serial data (text) transfer between two virtual ports performed with Tera Term terminal and virtual terminal in Proteus for all stages of LEDs.

Red Light



Blue Light



Green Light

