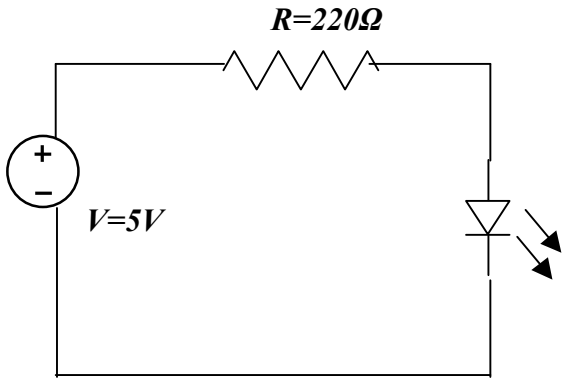
CS1025 Laboratory Experiment 1:

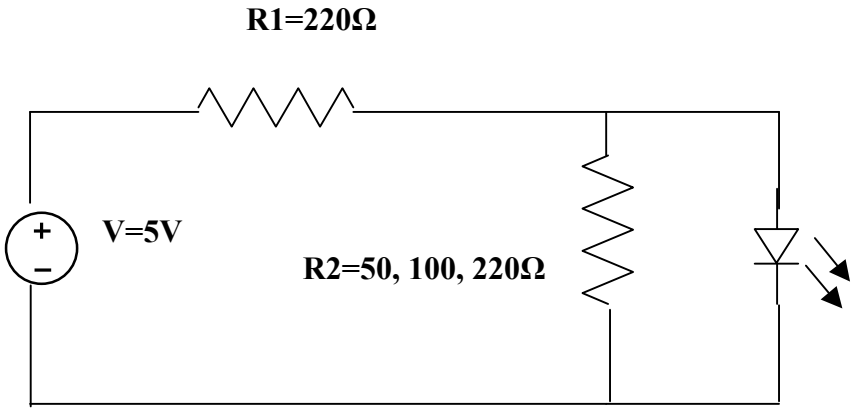
1) Connect the circuit shown in the following diagram:



2) Using a 5V d.c. supply, connect the above circuit and measure:

   a) The voltage drop across the LED.
   b) The voltage drop across the resistor(s).
   c) The current through the resistor(s)/LED.
   d) The resistance of the LED.

3) Connect the circuit shown below with resistors connected in parallel with the LED and repeat the measurements above ***for each configutation*** (R2=50, 100, 200Ω. Explain your observations.



Laboratory Report:

Reports should be handed up at the subsequent laboratory session for your group. Your name, group number and the date should be clearly indicated on the cover page. The report for this experiment should include the circuit diagrams and the respective measurements in tabular form. From the measurements taken you should verify Kirchoffs Current and Voltage Laws and compare with those derived theoretically.

The report should be written with a pen and be neat and concise (use a ruler for the circuit diagrams and tables). Students should note that ~25% of marks are awarded for presentation, ~75% for explanation and interpretation of results. The work should be completed on A4 paper – duly bound.