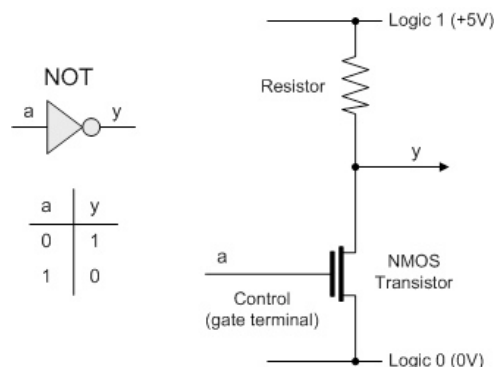


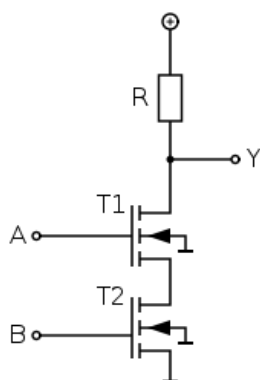
CS1025 Laboratory Experiment 5:

- 1) Connect the inverter circuit shown in the following diagram:



Use the 2N7000 E-MOSFET and a 1K resistor. Connect a LED at the output. Note the input and output voltages and verify the truth table.

- 2) Connect the following circuit:



The resistor is 1K and again connect a LED across the output. Note the input and output voltages. Determine the truth table for the circuit and identify the circuit. What happens if one increases the value of the resistor to say 5K?

Laboratory Report:

Reports should be submitted via Blackboard before the subsequent laboratory session for your group.

Your name, student number, date the experiment was performed, your lab session and details of any attachments such as letters of permission etc. should be clearly indicated on the cover page.

The report for this experiment should include the circuit diagrams and the respective measurements in tabular and graphical form as appropriate.

The report should be neatly written. Students should note that ~25% of marks are awarded for presentation of results, ~75% for explanation and interpretation of results – assuming the experiment was performed correctly. If you discover following your lab session that you have made a mistake then your report should identify that mistake and explain how it should be corrected.

