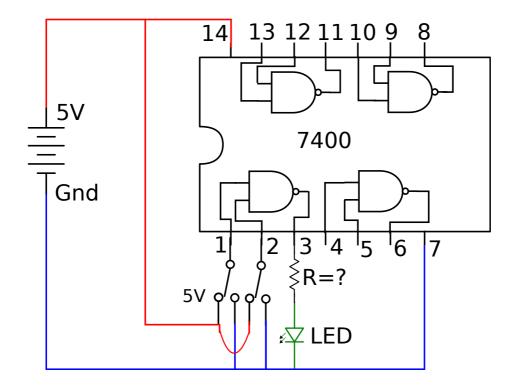
Lab1: Introduction to logic gates



Circuit diagram

Tasks

- 1)Implement a 2 input NAND gate logic using 74 series Ics in breadboard given
- 2) From the datasheet find the maximum output current driving capability of NAND gate. Can you comment on the significance of this parameter?
- 3) Find the minimum resistance required to be in series to drive a LED from the output of NAND gate
- 4) Experimentally validate the truth table
- 5) Write a HDL for Realisation of NAND gate
- 6) Simulate the NAND gate in VIVADO simulator
- 7) View the RTL Schematic
- 8) Implement the design in Zybo board and verify the truth table.
- 9) Provide a report with sufficient waveforms