CS-150 Worksheet 4   Release date: 29/11/2019

This worksheet is about getting familiar with logic gates and circuits.

☐ Task 4.1

- Draw the following circuit diagrams (note there are different notations!):

  1. $(A \text{ AND } B) \text{ OR } C$

  2. $AB + C$

  3. $(A + BC) + D'$

  4. $(A \text{ XOR } B) \text{ NAND } C$

  5. $(A \text{ OR } B) \text{ AND } (C \text{ NOR } A)$

☐ Task 4.2

- Write the truth table for each of the above expressions.

☐ Task 4.3

- Give the boolean expressions for each of the following: