VILNIAUS GEDIMINO
TECHNIKOS UNIVERSITETAS

Logical Operations

3 laboratory work

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The main aim of laboratory work

- You will learn how to give input through arguments, to create CSV files.
- Application of logic elements.
- Be able to clearly present data / results in a output file.

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3 laboratory work

- Create a program where two integer decimal numbers are given as an input data (use arguments). Calculate four different XOR operations which are presented in the slides below.
- The result must be outputted in a CSV file with the following data:
  - ✓ Name, Lastname, Group;
  - ✓ Input data;
  - ✓ Logical sequences used;
  - ✓ The final results obtained after operations.

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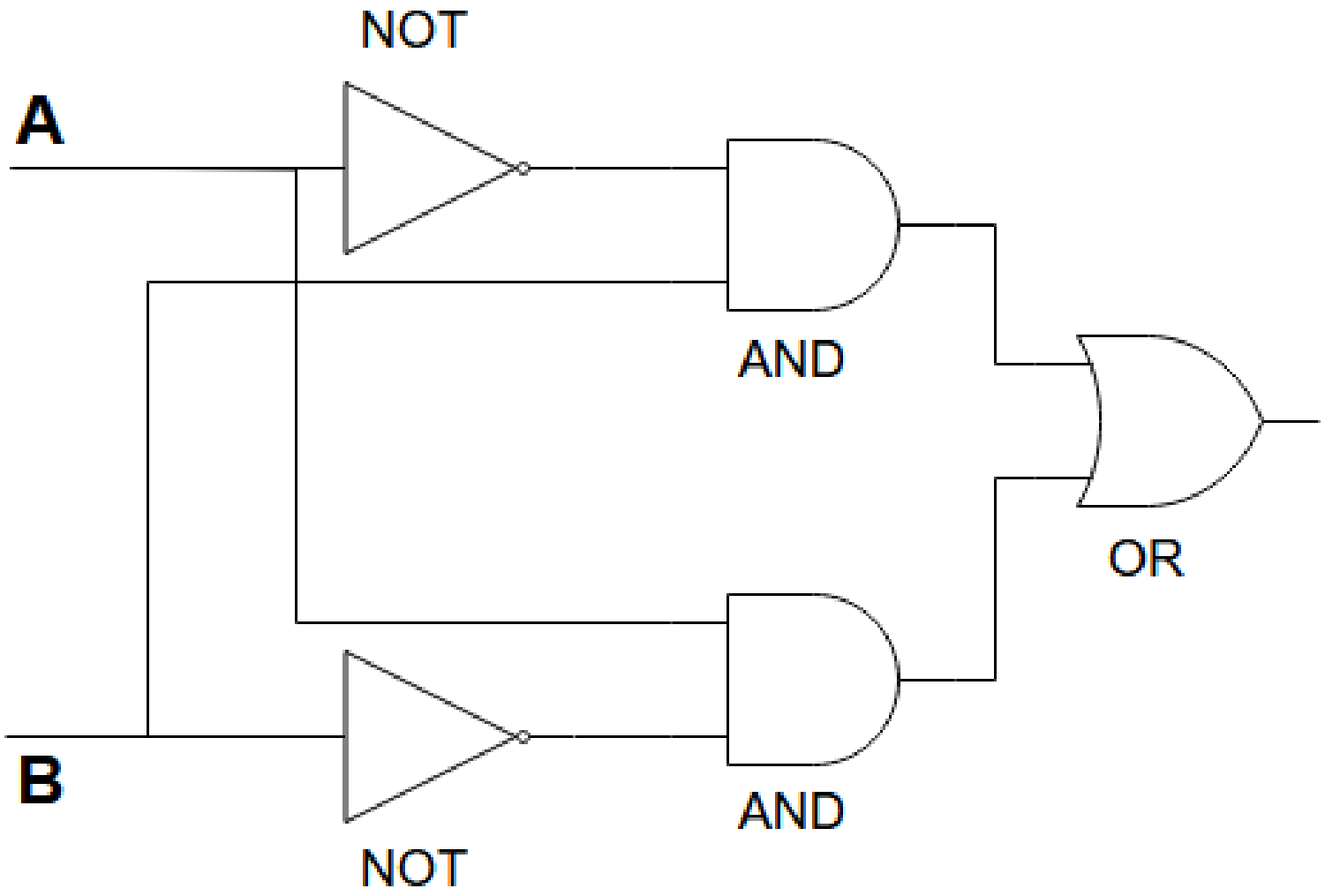
XOR (1)



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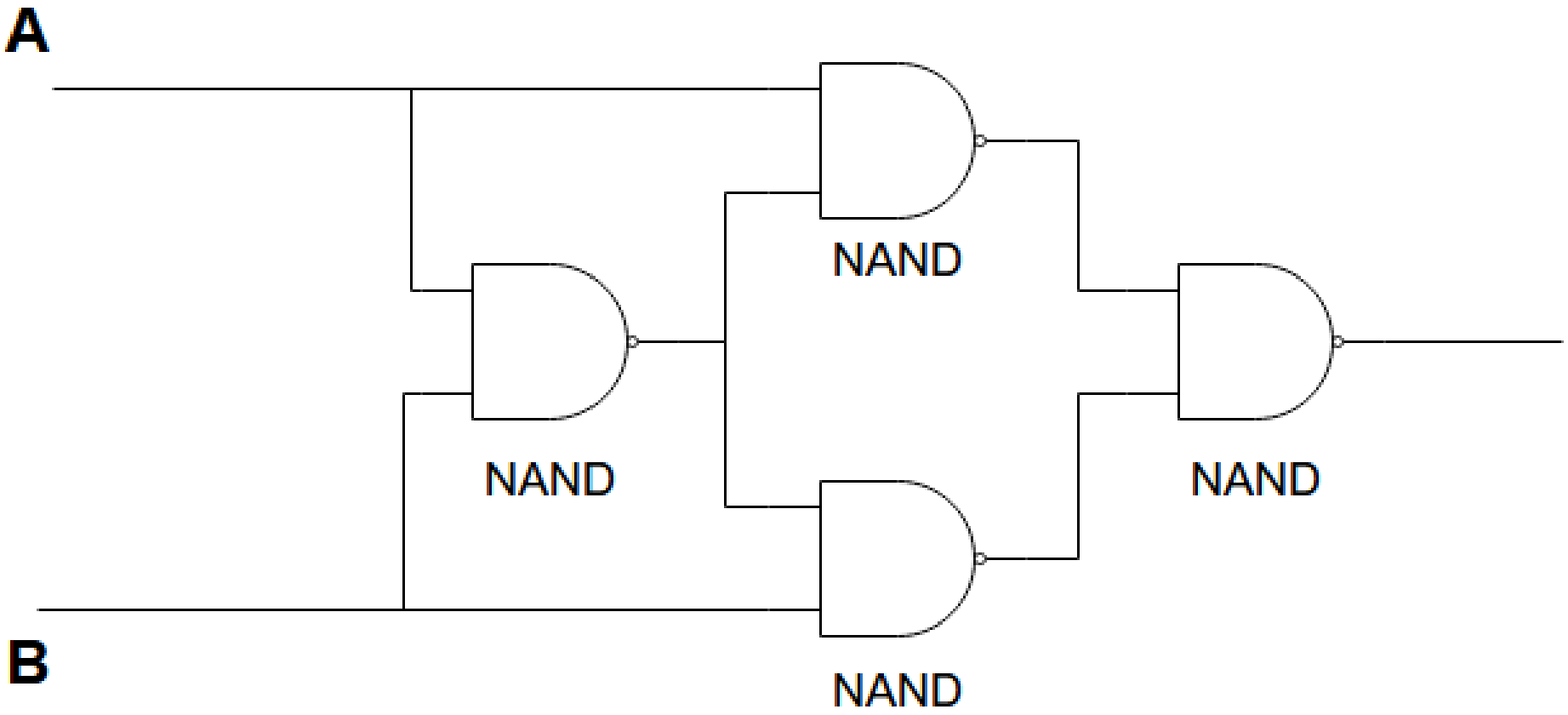
XOR (2)



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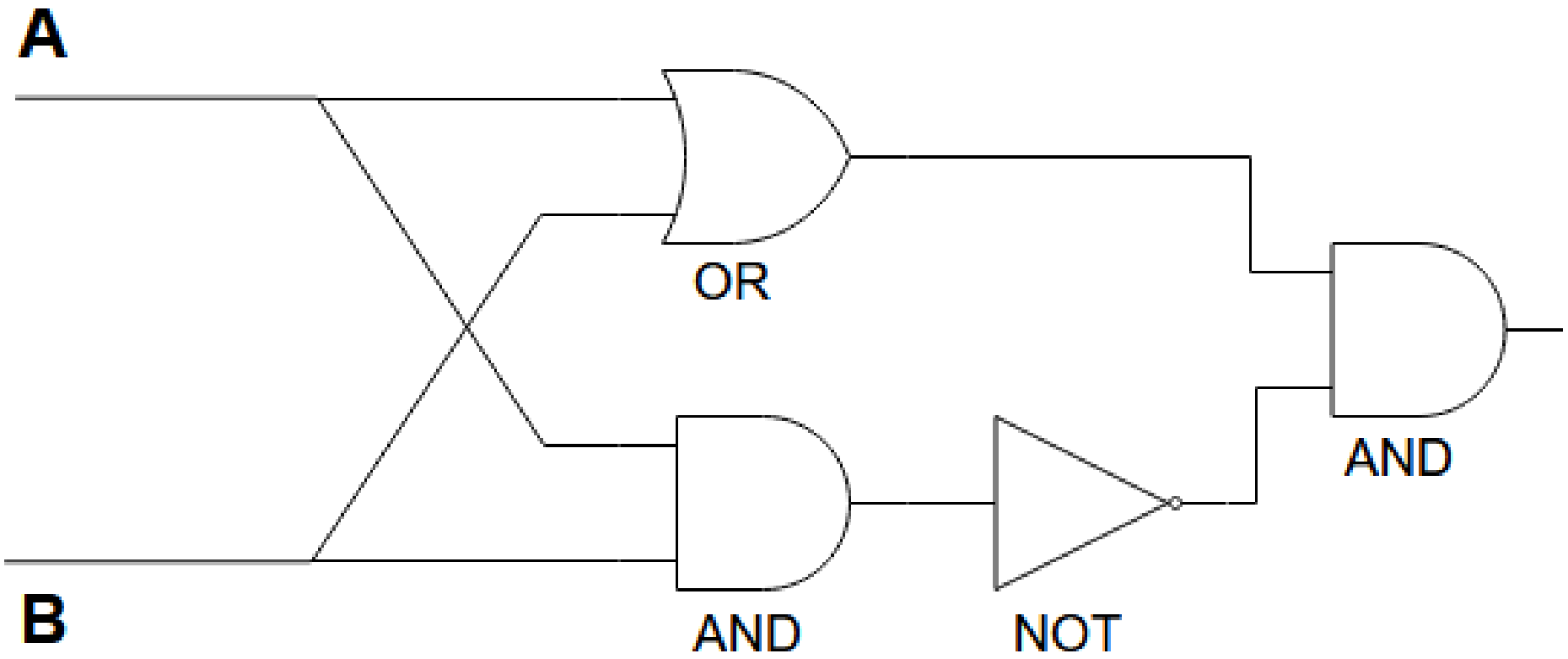
XOR (3)



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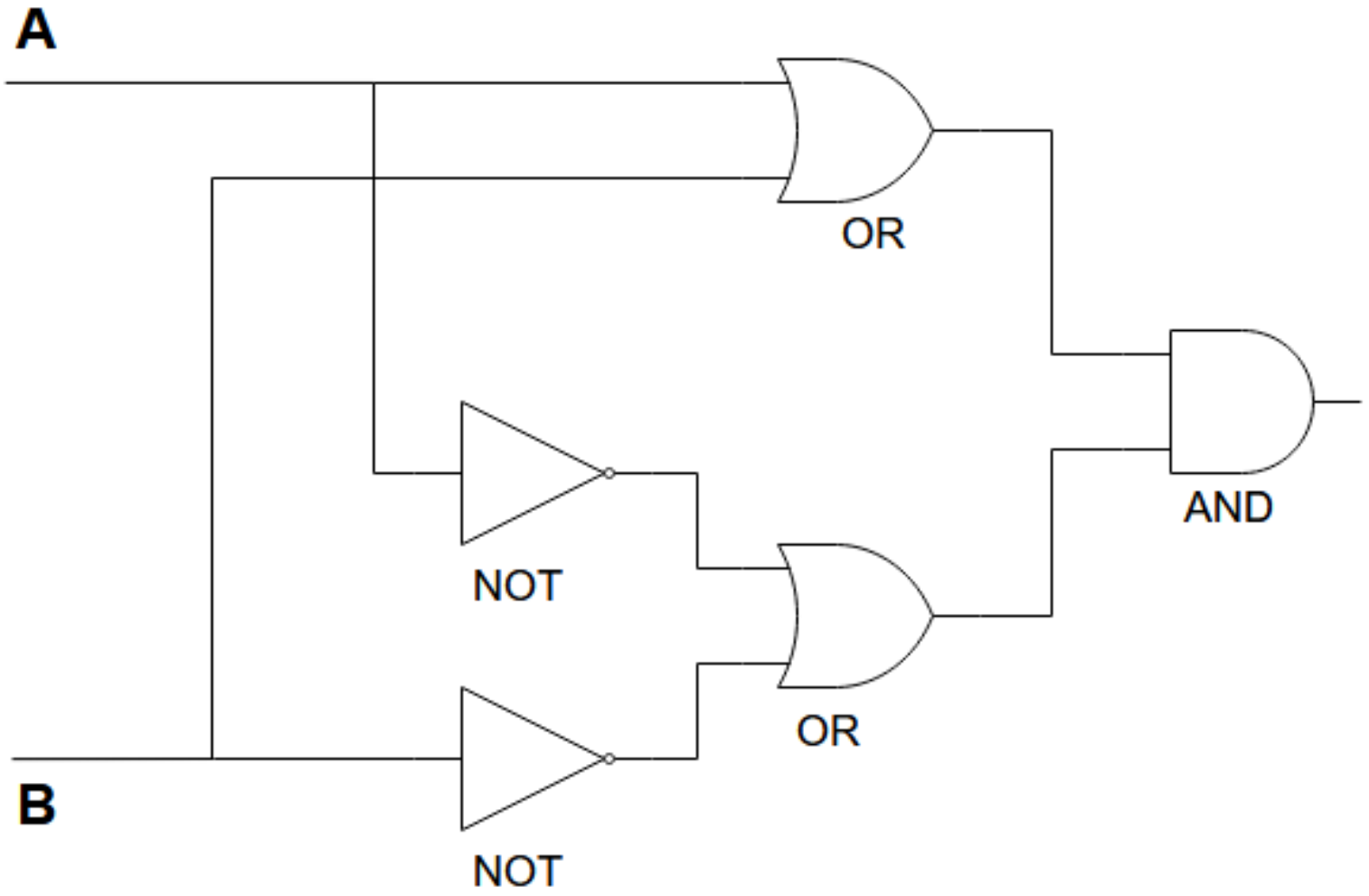
XOR (4)



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Evaluation

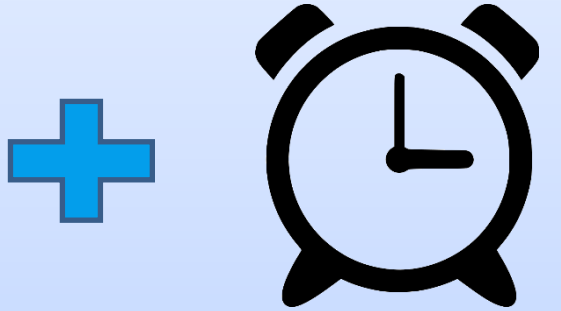
MAX: 10 points

MIN: 5 points

REALIZATION

COLLECTED SCORE

PRESENTATION



PRESENTED ON TIME

General requirements (10 points)

1. Input is taken from the command line (decimal) (1).
2. The decimal number converted to a binary number (1).
3. Four XOR sequences are implemented as separate functions (4).
4. Clear and structured presentation of results in a CSV file (2).
5. The program works correctly - all XOR gives the same result (1).
6. Optimized program code (1).