Describe the role of system software as part of a computer system

Discover the logic gates AND, NOT, and OR, including their symbols and their truth tables

Design a logical circuit, combining logic gates to solve a problem

Learn how logic gates are used in carrying out computation

Understand the roles and purpose of each component of the CPU in computation

Describe how combinations of logic units can perform arithmetic operations

Describe how combinations of logic units can perform arithmetic operations

Differentiate between a high-level and low-level language

Determine that assembly language has a 1:1 relationship with machine code

Explain the basic commands in the LMC’s assembly code

Design and write your own program in assembly language

INP, OUT, STA, LDA, ADD, SUB, and BRP

Describe the role of system software as part of a computer system

Differentiate between a high-level and low-level language

Describe the role of each part of the CPU as part of fetch-decode-execute cycle

Understand the roles and purpose of each component of the CPU in computation

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