

## Exercise 1: Understanding Basic Computer Concepts

1. Explain the function of a microprocessor in a computer system.
2. What is the difference between RAM and ROM in a computer system?
3. Describe the concept of a Turing machine and its significance in computer science.
4. Draw and label a functional system diagram of a computer and briefly describe the role of each component in the system. Your diagram should include the following components :
  - Central Processing Unit (CPU)
  - Memory (RAM and Storage)
  - Input Devices
  - Output Devices
  - Bus
  - Control Unit
  - Arithmetic Logic Unit (ALU)

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