Exercise for Slot2 - CSI106 Exercise 1: Fill in the Blanks

"A computer consists of three main components: the CPU, main memory, ar	nd the input/output
subsystem. Within the CPU, there are three main parts: the, _	, and
Which component performs arithmetic operations?	"

Exercise 2: Classify Instruction Types

Classify the following instructions into two main types: CISC or RISC.

- 1. ADD
- 2. MOV
- 3. MUL
- 4. DIV
- 5. XOR

Exercise 3: Calculate Necessary Bits

A computer has 256 MB of memory. Each word in this computer is four bytes. Calculate the number of bits needed to address a word in memory.

Exercise 4: Compare Computer Architectures

Compare CISC and RISC architectures. Highlight the main differences between them and the advantages/disadvantages of each architecture.