Assignm

I am adding this new assignment this semester based on my students comments last semester. Students reported that they need some preparation to get ready to create an imaginary computer.

Suppose in a 16 bit machine architecture 4 bits are set aside for opcode and 12 for operand.

1. Explain what opcode and operand are.
2. Explain these registers: PC, MBR, MAR, IR, AC
3. Using an example, explain how these registers, memory, control unit, buses and ALU work together to execute programs.