CS 271 Computer Architecture and Assembly Language

Self-Check for Lecture#1

Solutions

1. Terms / Definitions
   a. "hardware" refers to the tangible physical devices that comprise a computer system.
   b. "software" refers to the instructions that control the hardware.

2. True / False
   a. True High-level language programs are portable to a variety of computer architectures.
   b. False Assembly language programs are portable to a variety of computer architectures.

3. How is assembly language related to a computer's machine language?
   Each assembly language instruction maps to one machine instruction in the computer's instruction set.

4. How are assembly language statements converted to a computer's machine language?
   A software system (an assembler) accepts the assembly language source code as input, and produces architecture-specific machine code as output.