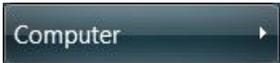
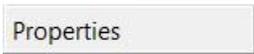


Homework: /SI110/The Cyber Battlefield/Architecture

1. You can locate useful information about your Windows 7 computer by navigating through the filesystem via the Desktop user-interface.

Left mouse click 
then right mouse click 
then left mouse click 

- a. What type of processor is installed? _____
- b. How much memory is installed? _____
- c. What is your computer's name? _____
- d. To what domain does it belong? _____

2. Four physical ports on your laptop are shown below. **Draw lines** to identify them:

- a. DisplayPort audio/video
- b. RJ45 Ethernet
- c. DB15 VGA video
- d. USB serial



3. List 5 different computer peripherals:

4. The operating system copies the contents of a program file

(instructions) to _____ when the program is started by the

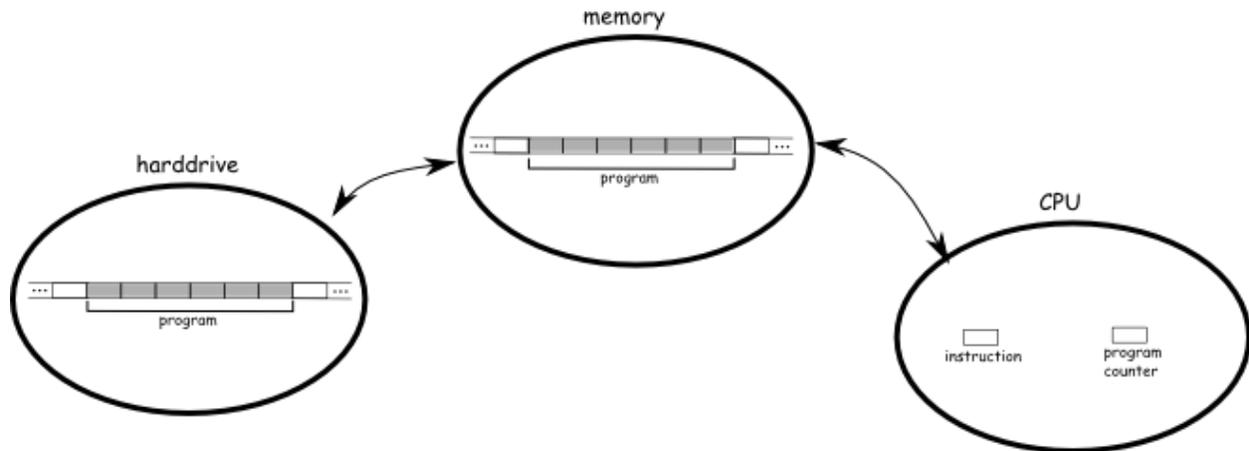
user. In the fetch part of the fetch-decode-execute cycle, the CPU takes the

next instruction from _____ and copies it in its

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_____ . The CPU decodes and executes the instruction, then increments its _____. Then the CPU continues repeating the fetch-decode-execute cycle.

5. The diagram below shows the simple model of a computer's architecture, as presented in class. Lookup "multicore processor" online, and from what you find there, modify the diagram so that it represents a quad-core processor.



6. A process is a running instance of an _____.

7. Use what you've learned to explain why your computer would slow down drastically if you had more programs running all at once than the space in your memory could hold.