1) (Chapter 6) Books4u.com wants to develop a modular architecture for its planned on-line bookselling service described in “On-Line Bookselling” on pg. 66 of Messerschmitt. They want modularity for both their software design and their organization (for example: order fulfillment, marketing, finances, etc.). Define a modular architecture for Books4u.com’s (i) software and (ii) organization, indicating what functions the subsystem performs, and what it interfaces with.

2) (Chapter 7) What are some reasons it might be preferable to purchase a component rather than design a similar subsystem? What about the reverse of this scenario? Provide 2 reasons for each scenario.

3) (Chapter 7) Outsourcing (i.e. leasing services and hiring professional-service firms in preference to internal organizations) is gaining popularity. What are the advantages of outsourcing? Are there any downsides to outsourcing? Provide 2 reasons for each scenario.

4) (Chapter 7) For each of the following items, discuss why a supplier might want to participate in the standardization and later adopt the resulting standard. Then discuss why a supplier might not want to adopt a standard, and whether the standard has more benefit for the user/consumer or the supplier.

- The format for storage of word processing documents on disk.
- The graphical user interface to a word processing program
- A method of cash payment over the Web.