briefly at how design patterns can be used as solutions to commonly recurring problems.

Bibliography

Bennett, S., McRobb, S. and Farmer, R. (2002) *Object-Oriented Systems Analysis and Design Using UML* (2nd edition), McGraw-Hill, London.

Deitel, H.M. and Deitel, P.J. (2003) *Java: How to Program* (5th edition), Prentice Hall, Upper Saddle River, NJ.

Fowler, M. (2000) *UML Distilled: A Brief Guide to the Standard Object Modeling Language* (2nd edition), Addison-Wesley, Reading, MA.

Gamma, E., Helm, R., Johnson, R. and Vlissides, J. (1995) *Design Patterns: Elements of Reusable Object-Oriented Software*, Addison-Wesley, Reading, MA.

Lunn, K. (2003) *Software Development with UML*, Palgrave Macmillan, Basingstoke.

Priestley, M. (2000) *Practical Object-Oriented Design with UML*, McGraw-Hill, London.

Quatrani, T. (1998) *Visual Modeling with Rational Rose and UML*, Addison-Wesley, Reading, MA.

Shneiderman, B. (2004) *Designing the User Interface: Strategies for Effective Human-Computer Interaction* (4th edition), Addison-Wesley, Reading, MA.

Stevens, P., with Pooley, R. (2000) *Using UML. Software Engineering with Objects and Components* (updated edition), Addison-Wesley, Harlow.

Quick check questions

You can find the answers to these in the chapter.

a   Briefly describe and give an example of: an entity class, a boundary class and a control class.

b   What does visibility mean in relation to operations and attributes? What values can visibility have?