<i>Table 4.6:</i>	Items and	concepts	for	Exercise 4	٠5

Concept	Definition
a aggregation	1 a relationship between two classes where one is a specialization of another
b association	2 the ability of one operation to be implemented by different methods
c attribute	3 abstracting common features into a superclass
d class	4 code implementing an operation
e data hiding	5 concealing internal details of an object
f encapsulation	6 creation of an object
g generalization	7 data item defined as part of a class or object
h inheritance	8 instance of a class
a instatiation	9 interface of a method
b message	10 packaging together data and operations
c method	11 relationship between classes
d object	12 request for a service to be executed
e operation	13 template for objects
f polymorphism	14 whole-part relationship

- 4.6 This question relates to the rugby counter example in the section on encapsulation and data hiding. Give a list of all the messages that the object <u>blueSide</u>: Counter can understand.
- Draw diagrams to link the following classes using 4.7 association, aggregation, inheritance and multiplicity where appropriate.
 - hotel room, booking, guest
 - club member, adult member, junior member
 - exam paper, instruction, question, solution
 - animal, mammal, bird, reptile, dog, horse, parrot
 - sentence, word, letter, punctuation
 - academic staff, lecturer, professor, student.