Exercise 4.15

Part a

```
Robot automaton[];
    int i;
    automaton = new Robot[8];

    automaton[0] = new CookRobot();
    automaton[1] = new MaidRobot();
    automaton[2] = new ButlerRobot();
    automaton[3] = new MartianRobot();
    automaton[4] = new WierdoRobot();
    automaton[5] = new DogRobot();
    automaton[6] = new CatRobot();
    automaton[7] = new HorseRobot();
```

Figure E.27   Answer to Exercise 4.15a

Part b

```
for (i=0;i<8;i++)
{
automaton[i].perform();
}
```

Figure E.28   Answer to Exercise 4.15b

Chapter 5

Exercise 5.1

a   A system for a medical centre: doctor, nurse, patient, appointment, prescription, medication

b   A system for a video hire shop: video, video copy, customer, hire

c   A system for a car park which allows entry with an ID card: car, barrier, car sensor, ID card

d   A system allocating equipment to local schools: school, equipment item, supplier.