## The Structure of switch statements

The switch statement is similar to an if-else ladder. It is used to choose from among many courses of action depending on the value of a particular variable (which must be an integer or a character). The syntax is as follows:

Because this syntax may appear rather opaque, we present the following example:

```
int usernumber, option=4;
cout << "Enter your user number: ";</pre>
cin >> usernumber;
switch (usernumber)
  case 0:
             cout << "You are the null user!" << endl;</pre>
             break;
  case 42:
            if(option==1)
              cout << "You are all-knowing!" << endl;</pre>
              cout << "You are almost all-knowing!" << endl;</pre>
             break;
  case 999: cout << "You are the superuser!" << endl;</pre>
             break;
  default: cout << "You are some random user." << endl;</pre>
}
```

The default clause is optional. The break statement is important—without it, the appropriate statements and all statements that follow it are executed. In the example above, if there were no breaks, the "null user" would see all four messages. All code written after the case is listed will be executed up to the break, so loops, if\_else etc. may be used.