switch

The switch statement allows you to choose between arbitrary number of code sections to be executed depending on the value of an integer expression. The general syntax is:

The break statements at the end of each case section tell Java that the switch statement execution is finished. If you do not put break, Java will continue executing the next section, no matter that it is marked as a different case. The default section is executed when the integer expression does not match any of the cases. It is optional.

The integer values that correspond to different cases of the switch are usually pre-defined as integer constants. Imagine you are developing a model of an overhead bridge crane where the crane is an agent controlled by a set of commands. The response of the crane to the commands can be programmed in the form of a switch statement:

```
switch( command ) {
case MOVE RIGHT:
    speed = 10;
    break;
case MOVE LEFT:
    speed = -10;
    break;
case STOP:
    speed = 0;
    break:
case RAISE:
   break;
case LOWER:
    break:
default:
    error( "Invalid command: " + command );
```