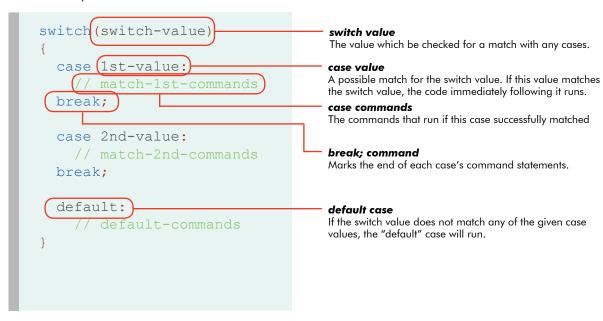
Reference

Switch Case

The switch-case command is a **decision-making statement** which chooses commands to run from **a list of separate "cases"**. A single "switch" value is selected and evaluated, and different sets of code are run based on which "case" the value matches.

Below is the pseudocode outline of a switch-case Statement.



Switch Case

The touch sensors are used to set the value of turnVar in the program below. The switch-case statement is then used to determine what to do, based on its value. No sensors pressed will leave turnVar with a value of 0, and the robot will run the "default" case and go straight. Pressing touch1 will give turnVar a value of 1, and make case 1 run (left turn). Pressing touch2 makes turnVar 2, which makes case 2 (right turn) run. Both turns reset turnVar to 0 before ending, to allow fresh input on the next pass of the loop.

```
task main()
 2
 3
      int turnVar=0;
 4
 5
      while (true)
 6
                                                         Switch statement
                                                         The "switch" line designates the value that will be
 7
         if (SensorValue (touch1) == 1)
                                                         evaluated to see if it matches any of the case values.
 8
          turnVar=1;
10
         if (SensorValue (touch2) == 1)
         turnVar=2;
11
                                                         Case statement
                                                         The first line of a case includes the word "case" and
12
                                                         a value. If the value of the "switch" variable (turnVar)
13
          switch (turnVar)
                                                         matches this case value (1), the code following the
                                                         "case" line will run.
14
15
          case 1:
            motor[motorC]=-100;
16
17
            motor[motorB] = 100;
                                                         Commands
                                                         These commands belong to the case "1", and will
18
            turnVar=0;
                                                         run if the value of the "switch" variable (turnVar) is
19
                                                         equal to 1.
            break;
20
21
           case 2:
22
            motor[motorC] = 100;
                                                         Break statement
                                                         Each "case" ends with the command break;
            motor[motorB] = -100;
23
24
            turnVar=0;
25
            break;
26
27
           default:
                                                         Default case statement
                                                         If the "switch" value above did not match any of the
            motor[motorC] = 100;
28
                                                         cases presented by the time it reaches this point, the
29
            motor[motorB] = 100;
                                                         "default" case will run.
30
31
32
```