

# Java Quick Reference



## Common Java Syntax

All page references are for How to Program - Java, 10th edition Late Objects, Deitel and Deitel

Description	Syntax	Example(s)
<b>Declaring Variables</b> Section 2.5.4 (pg 47)	<i>type name;</i> <i>name = value;</i> OR <i>type name = value;</i>	<code>int x;</code> <code>x = 5;</code> <code>char letter = 'a';</code> <code>boolean valid = false;</code>
<b>if/else if/ else statements</b> Section 3.5-3.6 (pg 76)	<code>if (Condition)</code> <i>statement(s)</i> <code>else if (Condition2)</code> <i>statement(s)</i> <code>else</code> <i>statement(s)</i>	<code>if (x &lt; 4)</code> <code>System.out.print("x &lt; 4");</code> <code>else if (x == 4)</code> <code>System.out.print("x == 4");</code> <code>else</code> <code>System.out.print("x &gt; 4");</code>
<b>Switch statement</b> Section 4.6 (pg 134)	<code>switch (variable)</code> { <b>case value:</b> <i>statement1;</i> <b>break;</b>  <b>default:</b> <i>statementN;</i> }	<code>switch (letter)</code> { <b>case 'a':</b> <code>System.out.print("a");</code> <b>break;</b>  <b>default:</b> <code>System.out.print("??");</code> }
<b>While statement</b> Section 3.7 (pg 82)	<code>while (Condition)</code> { <i>statement(s)</i> <i>manipulate variable</i> }	<code>while (x &lt; 5)</code> { <code>System.out.print(x);</code> <code>x = x + 1;</code> }
<b>Compound Assignment(s)</b> Section 3.11 (pg 99)	<i>variable operator=</i> <i>expression;</i>	<code>x += 3;</code> <code>x -= y;</code>
<b>For statement</b> Section 4.3 (pg 124)	<code>for (initialization;</code> <code>condition;increment)</code> { <i>statement(s)</i> }	<code>for (int x = 0; x &lt; 5; x++)</code> { <code>System.out.println(x);</code> }
<b>Casting &amp; Promotion</b> Section 5.7 (pg 175)	<i>variable = (cast)</i> <i>expression;</i>	<code>double x = (double)8 / 9;</code> <code>double x = 3 + 4;</code> <code>double y = 7.5 * 2;</code>
<b>do while statement</b> Section 4.5 (pg 132)	<code>do</code> { <i>statement(s)</i> } <code>while (condition);</code>	<code>do</code> { <code>System.out.println(x);</code> } <code>while (x &lt;= 10);</code>



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<b>Method Declaration</b> Section 5.4 (pg 169)	<i>accessmodifier</i> <i>returntype</i> <i>methodname (parameterList)</i> { <i>Declaration and statements</i> }	<pre>public static int add(x,y) {     int sum = x + y;     return sum; }</pre>
<b>Array Declaration</b> Section 6.4 (p 212)	<pre>type[] name; name = new type[size]; OR type[] name = new type[size]; type[][] name = new type[size][size];</pre>	<pre>int[] x; x = new int[5]; char[] letters = new char[26]; int[] nums = new int[10]; int[][] box = new int[4][4];</pre>
<b>Enhanced for statement</b> Section 6.7 (pg 223)	<pre>for (parameter: arrayName) {     statement(s) }</pre>	<pre>for (int num: array) {     System.out.println(num); }</pre>
<b>Class Declarations</b> Section 7.2 (p 267)	<pre>Accessmodifier class filename {     Instance Variables     Constructor (Optional)     Methods }</pre>	<pre>public class test {     //Implementation }</pre>
<b>Instantiating an Object</b> Section 7.1-7.2(p 266)	<pre>ClassName name = new ClassName(argument(s))</pre>	<pre>Scanner input = new Scanner(system.in); Random rand = new Random();</pre>