

Java for Complete Beginners - Contents

GETTING STARTED	4
The Java Virtual Machine	4
The Java Software Development Kit	5
Java – How things work	5
The NetBeans Software	6
Comments	9
Structure of the program	10
Running the code	11
Running programs	13
Sharing your programs with others	15
VARIABLES	17
The Double variable	21
Short and Float	22
Simple arithmetic	22
Operator Precedence	23
STRING VARIABLES	26
Accepting Input from a User	29
Option Panes	32
CONDITIONAL LOGIC	38
IF Statements	38
IF ... ELSE	42
IF ... ELSE IF	43
Nested IF Statements	45
Boolean Values	46
Switch Statements	47
LOOPS	52
For Loops	52
While Loops	58
ARRAYS	60
What is an Array?	60
Arrays and Loops	63
Other things you can do with arrays	64
Arrays and Strings	66
Multi-Dimensional Arrays	69
ArrayLists	71
MORE ON STRINGS	75
Uppercase and Lowercase	76
Comparing Strings	78
indexOf	79
Ends With ... Starts With	82
Substring	82
Equals	89

CharAt	91
Replace	92
Trim	93
METHODS	94
The Structure of a Method	94
Calling your Methods	95
Passing values to your methods	101
Passing more than one value to your methods	104
HOW TO WRITE YOUR OWN CLASSES	107
Field Variables	108
The Class Constructor	111
Accessing Class Values	112
Method Overloading	121
Constructor Overloading	125
Inheritance	127
JAVA AND ERROR HANDLING	133
Exceptions	133
Stacks and Stack Traces	135
Logical Errors	138
TEXT FILES	142
Read a Text File	142
Writing to a Text File	151
FORMATTED STRINGS	158
JAVA FORMS	163
NetBeans and Java Forms	163
Events	185
The Plus Button	192
The Equals Button	193
The Clear Button	195
Extending the Functionality of your Calculator	196
MORE FORM CONTROLS	202
The JComboBox Control	203
Check Boxes	208
Radio Buttons	212
Java Menus	216
The Open File Dialogue Box – File Chooser	221
Opening Files with the Open File Dialogue Box	226
The Save File Dialogue Box	229
DATABASES	231
Creating a Database with Java DB	232
Adding Records to the Database Table	239
SQL Commands	242
WHERE Clause	243
Connecting to a Database using Java code	245

Connecting to the Database	246
Connecting to a Database Table	251
ResultSets	252
Using a ResultSet	253

DATABASES AND JAVA FORMS **257**

Database Scrolling Buttons	261
Move Backward through the Database	264
Moving to the First and Last Records	265
Updating a Record	266
Adding a New Record	269
Saving a New Record	276
Deleting a Record	279

