

Chapter 1: Introduction

Java Platform	1
Applets and Applications.....	2
Java Programming Language: Facilities and Foundation.....	3
Object Oriented	4
Data Types	5
Numeric Data Types	5
Character Data Types	5
Boolean Data Types	5
Arithmetic and Relational Operators	6
Arrays	7
Strings	8
Memory Management and Garbage Collection	9
Integrated Thread Synchronization	10

Chapter 2: Programming Basics

Simple First Program	1
Variables	2
Character Variables	2
String Variables	2
Integer Variables	2
Declaring Variables	3
Variable Names and Data Types	4
Variables and Class	4
Variable Scope Demo.....	5
Another Variable Scope Demo.....	5
Global Definition of Variables.....	6
Operators	7
Arithmetic Operators.....	7
Performing Calculations.....	8
Logical Operators	9
Relational Operators.....	10
Assignment Operators	11
Increment and Decrement Operators	12
Using Operators	13
Using a Conditional Operator	14
Bitwise Operators	15
Literals	16
Escape Codes	16
String Literals	17
Using Escape Sequence Codes.....	17
Statements and Expressions	18
Arrays	19
Prints Out the Command Line Arguments	20

Chapter 3: Flow of Control Statements

The if Statement.....	1
Coding an if Statement	2
The if/else Statement	3
The if/else/if Statement	4
The for Statement	5
For Loop Example	6
The while Statement	7
Sample While Loop	8
The switch Statement	9

Chapter 4: String Manipulation

Two String Classes.....	1
Creating a String.....	2
Creating a StringBuffer	2
Accessor Methods	3
More Accessor Methods	3
String Class	4
StringBuffer Class	7
Modifying StringBuffer	8
Inserting Characters	9
Converting Objects to Strings	10
toString() Method.....	10
valueOf() Method.....	11
Converting Strings to Numbers	12
Strings and the Java Compiler	13
Literal Strings	13

Chapter 5: Class in Java

Terminology and Concepts	1
Creating Classes	2
Subclasses, Superclasses, and Inheritance	2
Interfaces	2
Packages	2
Creating Objects	3
Declaring an Object.....	4
Instantiating an Object	5
Initializing an Object	6
Using Objects	7
Referencing an Object's Variables	8
Calling an Object's Methods	9
Cleaning Up Unused Objects	11
The Garbage Collector	11
Finalization	11
The Class Declaration	12
Declaring a Class's Superclass	13

Listing the Interfaces Implemented by a Class	14
Public, Abstract, and Final Classes.....	15
The Class Body	16
Declaring Member Variables.....	17
Declaring Constants	19
Controlling Access to Members of a Class	20
Private	21
Protected	22
Public	24

Chapter 6: Error Handling

Exception Handling: Purpose and Function Run	1
Basic Exceptions	2
The Try Block.....	3
Exception Handlers	4
Termination versus Resumption.....	5
Rethrowing an Exception	6
Performing Cleanup with Finally.....	7

Chapter 7: Coding an Applet

Purpose and Function.....	1
Applet Methods and Terminology.....	2
Applet Network Restrictions	3
Loading, Leaving and Returning to the Applet's Page	4
Methods for Milestones	5
Methods for Drawing.....	6
Methods for Event Handling	7
Methods for Adding UI Components	8
Methods for Using UI Components in Applets.....	9
Adding a Non-Editable Text Field to the Simple Applet.....	10
Executing an Applet	11
Loading Data Files	12
Displaying Short Status Strings	13
Displaying Documents in the Browser	14
Playing Sounds	15
Sound-Related Methods	15
Defining and Using Applet Parameters	16
Writing the Code to Support Parameters	17
Specifying the Applet Directory	18
Displaying Diagnostics to the Standard Output and Error Streams	19