

Crystal Concepts Systems & Solutions

Java & J2EE Programming

Chapter 1

- **Introduction to Java**
 - What is Java?
 - How Java Works?

Chapter 2

- **Data Types, Operators, Arrays and Control Structure**
 - Identifiers and Primitive Data Types
 - Variables, Constants and Literals
 - Conversions
 - Operators
 - Boolean Expressions and Operations
 - Array Initialization
 - Control Statement
 - Iteration Statement

Chapter 3

- **Classes and Objects, Inheritance, Polymorphism**
 - Object Oriented Language
 - Classes In Java
 - Methods In Java
 - Nested and Inner Classes
 - Inheritance
 - Method Overriding
 - Abstract Classes

Chapter 4

- **Packages and Interfaces**
 - Modifiers
 - Default Access
 - Public Access
 - Accessor Modifiers
 - Packages
 - Interfaces

Chapter 5

- **Exception Handling**
 - Overview
 - Claiming and Throwing Exceptions

Chapter 6

- **Multi Threading**
 - Overview
 - The Life Of a Thread
 - The Thread Class
 - The Runnable Interface

Chapter 7

- **I/O Basics**
 - Introducing I/O
 - Character Data
 - Readers and Writers
 - Output Streams
 - Input Streams

Chapter 8

- **Java I/O Package**
 - The Data Byte Streams
 - File
 - Object Serialization

Chapter 9

- **Java Lang Package**
 - Introduction
 - The Object Class
 - Math Classes
 - String Class
 - String Buffer Class
 - Wrapper Classes

Chapter 10

- **Java Util Package**
 - Introduction
 - The Java Collections API

- The Collection Interface
- The Iterator Interface
- The Set Interface

Chapter 11

- **Applet & Java.awt Package**
 - Applet
 - Graphics
 - Java.awt Package
 - Menus and Submenus

Chapter 12

- **Event Handling**
 - The Choice Class
 - The List Class
 - The Checkbox Class

Chapter 13

- **Java Networking**
 - Introduction to TCP/IP
 - Ports
 - Sockets
 - Java.net Package
 - TCP
 - UDP
 - Datagram Packet
 - Datagram Socket
 - URL
 - HTTP

Chapter 14

- **RMI**
 - Overview of RMI
 - Stub and Skeleton
 - Step of Developing an RMI System

Chapter 15

- **JDBC**
 - Introduction
 - What is a Database?
 - JDBC
 - java.sql.package

- Statement
- Transaction
- Batch Updates

Chapter 16

- **J2EE**
 - The J2EE Platform
 - The J2EE APIs
 - The J2EE Architecture
 - The J2EE Application Development
 - The J2EE Application Server
 - Servlets
 - An Overview of the API
 - Java Server Package(JSP)
 - Enterprise Java Beans
 - Bean-Managed Persistence
 - Container-Managed Persistence

Duration: 2 months

Class Timings: Daily 2 hours/6 days a week

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