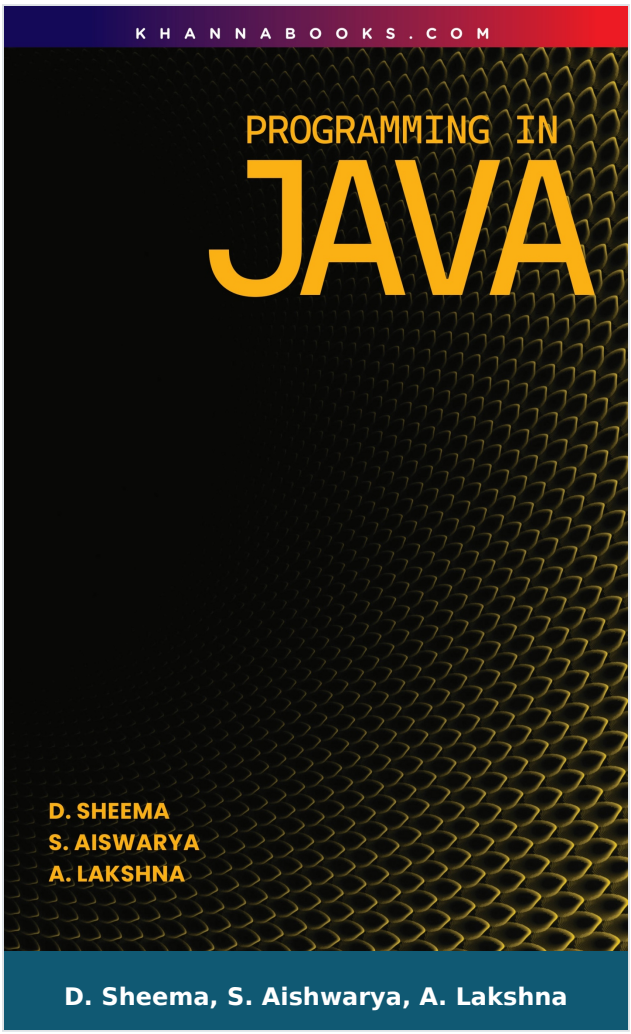


Programming in Java

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Product Description

This book is your complete resource for learning Programming in Java. Designed for both students and aspiring developers, it offers a robust and comprehensive path to mastering the Java language. You will start by building a strong foundation in Java basics, including the concepts of the Java Virtual Machine (JVM) and bytecode that enable its famous platform independence. The book then systematically covers the core principles of Object-Oriented Programming (OOP), such as inheritance, polymorphism, and encapsulation. By progressing to advanced topics like exception handling, I/O programming, Collections, and database connectivity (JDBC), you will gain the skills necessary to develop secure, high-performance applications.

Salient Features:

• Foundation to Advanced: Provides a clear, step-by-step learning curve, covering all topics from Java basics, data types, and tokens to enterprise technologies like JDBC, Servlets, and JSP.

• Write Once, Run Anywhere: Detailed explanation of the Java Virtual Machine (JVM) and Bytecode, highlighting the language's key feature of platform independence (WORA).

• Object-Oriented Mastery: In-depth coverage of OOP concepts including Classes, Objects, Inheritance, Method Overloading, and Method Overriding, with clear code examples.

• Focus on Robustness and Security: Emphasis on Java's built-in features for early error checking, runtime safety, and security mechanisms to protect applications.

• Practical Learning: Includes real-world examples and step-by-step instructions for setting up the Java Development Kit (JDK) and compiling and running your first programs.

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