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Beginning Java 8 Fundamentals

Language Syntax, Arrays, Data Types, Objects,
and Regular Expressions

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Kishori Sharan

Foreword by John Zukowski, Co-Founding Author of Apress & Java expert

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Mehran Habibi



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Sharan,2017-11-01 Learn the basics of Java 9 including basic programming concepts and the object oriented fundamentals necessary at all levels of Java development Author Kishori Sharan walks you through writing your first Java program step by step Armed with that practical experience you ll be ready to learn the core of the Java language Beginning Java 9 Fundamentals provides over 90 diagrams and 240 complete programs to help you learn the topics faster The book continues with a series of foundation topics including using data types working with operators and writing statements in Java These basics lead onto the heart of the Java language object oriented programming By learning topics such as classes objects interfaces and inheritance you ll have a good understanding ofJava s object oriented model The final collection of topics takes what you ve learned and turns you into a real Java programmer You ll see how to take the power of object oriented programming and write programs that can handle errors and exceptions process strings and dates format data and work with arrays to manipulate data This book is a companion to two other books also by Sharan focusing on APIs and advanced Java topics What You ll Learn Write your first Java programs with an emphasis on learning object oriented programming in Java Work with data types operators statements classes and objects Handle exceptions assertions strings and dates and object formatting Use regular expressions Work with arrays interfaces enums and inheritance Take advantage of the new JShell REPL tool Who This Book Is For Those who are new to Java programming who may have some or even no prior programming experience

Learning Java Marc Loy,Patrick Niemeyer,Daniel Leuck,2023-08-16 Ideal for working programmers new to Java this best selling book guides you through the language features and APIs of Java 21 Through fun compelling and realistic examples authors Marc Loy Patrick Niemeyer and Dan Leuck introduce you to Java s fundamentals including its class libraries programming techniques and idioms with an eye toward building real applications This updated sixth edition

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Introduction to JAVA Programming Y. Daniel Liang,2007 Programming is above all problem solving This book will help student thoroughly understand real world programming problems and solve those problems quickly and efficiently using Java 5 Ideal for novice programmers this book begins by providing a rock solid foundation in core programming and problem solving techniques Building on this foundation students steadily deepen their skills one step at a time They master basic object oriented programming and design create effective event driven GUIs use exception handling to build more robust software learn best practices for managing I O even use recursive methods to simplify difficult problems

BOOK JACKET Beginning Java Objects Jacquie Barker,2003-06-23 Among Java s many attractive features as a programming language its object oriented nature is key to creating powerful reusable code and applications that are easy to maintain and extend To take advantage of these capabilities you re going to need not only to master the syntax of the Java language but also to gain a practical understanding of what objects are all about Most importantly you need to know how to structure Java applications from the ground up to make the most of objects With Beginning Java Objects From Concepts to Code you ll master all three Learning to design objects effectively with Java is the goal of Beginning Java Objects From Concepts to Code Plenty of titles dig into the Java language in massive detail but this one takes the unique approach of stepping back and looking at fundamental object concepts first Mastery of Java from understanding the basic language features to building complete industrial strength Java applications emerges only after a thorough tour of thinking in objects Let this book be your guide

BEGINNING JAVA OBJECTS, BARKER,2000-11-09 With its portability robustness and ease of use Java is the ideal language for developing network applications Supported by versatile and powerful Application Programming Interfaces APIs Java has become the platform of choice for many developers of small as well as critical enterprise applications

Beginning Java 8 Language Features Kishori Sharan,2014-08-18 Beginning Java 8 Language Features covers essential and advanced features of the Java programming language such as the new lambda expressions closures inner classes threads I O Collections garbage collection streams and more Author Kishori Sharan provides over 60 diagrams and 290 complete programs to help you visualize and better understand the topics covered in this book The book starts with a series of chapters on the essential language features provided by Java including annotations inner classes reflection and generics These topics are then complemented by details of how to use lambda expressions allowing you to

build powerful and efficient Java programs The chapter on threads follows this up and discusses everything from the very basic concepts of a thread to the most advanced topics such as synchronizers the fork join framework and atomic variables This book contains unmatched coverage of Java I O including NIO 2 0 the Path API the FileVisitor API the watch service and asynchronous file I O With this in depth knowledge your data and file management programs will be able to take advantage of every feature of Java s powerful I O framework Finally you ll learn how to use the Stream API a new exciting addition to Java 8 to perform aggregate operations on collections of data elements using functional style programming You ll examine the details of stream processing such as creating streams from different data sources learning the difference between sequential and parallel streams applying the filter map reduce pattern and dealing with optional values

Java Regular Expressions Mehran Habibi, 2008-01-01 Java has always been an excellent language for working with objects But Java s text manipulation mechanisms have always been limited compared to languages like AWK and Perl On the flip side a regular expressions package in Java 2 Standard Edition J2SE brings hope to the Java text mechanisms This package provides you everything necessary to use regular expressions all packaged in a simplified object oriented framework In addition to working examples and best practices this book features a detailed API reference with examples supporting nearly every method and a step by step tutorial to create your own regular expressions With time you ll discover that regular expressions are extremely powerful in your programming arsenal and you ll enjoy using them And once you ve mastered these tools you ll wonder how you ever managed without them

Learning Java 8, 2015 Java is one of the top five programming languages and is used for websites embedded controllers and Android app development This is an introduction to get you started programming with Java Peggy Fisher introduces the basics data types strings arrays expressions loops and functions She ll help you control the flow and logic of your code and create classes using the principles of object oriented design Then go a bit beyond the basics and learn advanced techniques for working with arrays manipulating files and building graphical user interfaces GUIs that respond to user input This three hour capsule course is perfect for developers who need to get up to speed with Java fast as well as for beginning programmers who want their first taste of this popular language

Beginning Java Objects Jacquie Barker, 2005-06-27 Among Java s many attractive features as a programming language its object oriented nature is key to creating powerful reusable code and applications that are easy to maintain and extend To take advantage of these capabilities this guide helps readers master the syntax of the Java language and also to gain a practical understanding of what objects are all about

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