

An Introduction to Scientific and
Technical Computing with Java

JavaTech



**Clark S. Lindsey, Johnny S. Tolliver,
and Thomas Lindblad**

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Javatech An Introduction To Scientific And Technical Computing With Java

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Java Tech An Introduction to Scientific and Technical Computing with Java C.S. Lindsey,2005 **JavaTech, an Introduction to Scientific and Technical Computing with Java** Clark S. Lindsey,Johnny S. Tolliver,Thomas

Lindblad,2005-10-13 JavaTech demonstrates the ease with which Java can be used to create powerful network applications and distributed computing applications It can be used as a textbook for introductory or intermediate level programming courses and for more advanced students and researchers who need to learn Java for a particular task JavaTech is up to date with Java 5 0 BOOK JACKET *JavaTech, an Introduction to Scientific and Technical Computing with Java* Clark S.

Lindsey,Johnny S. Tolliver,Thomas Lindblad,2005-10-13 JavaTech is a practical introduction to the Java programming language with an emphasis on the features that benefit technical computing After presenting the basics of object oriented programming in Java it examines introductory topics such as graphical interfaces and thread processes It goes on to review network programming and develops Web client server examples for tasks such as monitoring remote devices The focus then shifts to distributed computing with RMI Finally it examines how Java programs can access the local platform and interact with hardware Topics include combining native code with Java communication via serial lines and programming embedded processors An extensive web site supports the book with additional instructional materials JavaTech demonstrates the ease with which Java can be used to create powerful network applications and distributed computing applications It will be used as a textbook for programming courses and by researchers who need to learn Java for a particular task **A Practical**

Approach to Learn JAVA Mayank Patel, The proposed book is a special practical guide to all who want to learn the Java Programming from basic without having the deep knowledge of theoretical concept It covers on extensive syllabus designed by Rajasthan technical University and various private universities of Rajasthan The each topic is demonstrative with more than 200 solved programming examples that are covered in the book It has a comprehensive coverage of complicated topics like Packages Interfaces Collections Applets AWTs Derby Database Swing and Calendar class with detailed description of real life problems solution The objective questions and programming exercises of each chapter are given at the end More than 300 questions to solve including programming exercises with 100% Practical Implementation of all the topics on Core Java Programming are covered in it Book also has the challenging JAVA practical Questions and commonly asked interview Questions **LEARN JDBC THE HARD WAY: A Hands-On Reference to MySQL and SQL Server Driven**

Programming Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-23 This hands on tutorial reference guide to MySQL and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren t getting the most from MySQL and SQL Server As you would expect this book shows how to build from scratch two different databases MySQL and SQL Server using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In the first chapter you will learn How to install NetBeans JDK 11 and MySQL Connector J How to integrate external libraries into

projects How the basic MySQL commands are used How to query statements to create databases create tables fill tables and manipulate table contents is done In the second chapter you will study Creating the initial three table projects in the school database Teacher table TClass table and Subject table Creating database configuration files Creating a Java GUI for viewing and navigating the contents of each table Creating a Java GUI for inserting and editing tables and Creating a Java GUI to join and query the three tables In the third chapter you will learn Creating the main form to connect all forms Creating a project will add three more tables to the school database the Student table the Parent table and Tuition table Creating a Java GUI to view and navigate the contents of each table Creating a Java GUI for editing inserting and deleting records in each table Creating a Java GUI to join and query the three tables and all six In chapter four you will study how to query the six tables In chapter five you will be taught how to create Crime database and its tables In chapter six you will be taught how to extract image features utilizing BufferedImage class in Java GUI In chapter seven you will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo In chapter eight you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 In chapter nine you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In chapter ten you will add two tables Victim and File_Case The File_Case table will connect four other tables Suspect Police_Station Investigator and Victim The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The File_Case has seven columns file_case_id primary key suspect_id foreign key police_station_id foreign key investigator_id foreign key victim_id foreign key status and description Here you will also design a Java GUI to display edit fill and delete data in both tables Finally this book is hopefully useful and can improve database programming skills for every Java MySQL SQL SERVER programmer

Learn JDBC The Hard Way: A Hands-On Guide to PostgreSQL and SQL Server Driven Programming Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-11-23 This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to PostgreSQL and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren't getting the most from PostgreSQL and SQL Server As you would expect this book shows how to build from scratch two different databases PostgreSQL and SQL Server using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In chapter one you will learn How to install NetBeans JDK 11 and the PostgreSQL

connector How to integrate external libraries into projects How the basic PostgreSQL commands are used How to query statements to create databases create tables fill tables and manipulate table contents is done In chapter two you will learn querying data from the postgresql using jdbc including establishing a database connection creating a statement object executing the query processing the resultset object querying data using a statement that returns multiple rows querying data using a statement that has parameters inserting data into a table using jdbc updating data in postgresql database using jdbc calling postgresql stored function using jdbc deleting data from a postgresql table using jdbc and postgresql jdbc transaction In chapter three you will learn the basics of cryptography using Java Here you will learn how to write a Java program to count Hash MAC Message Authentication Code store keys in a KeyStore generate PrivateKey and PublicKey encrypt decrypt data and generate and verify digital prints You will also learn how to create and store salt passwords and verify them In chapter four you will create a PostgreSQL database named Bank and its tables In chapter five you will create a Login table In this case you will see how to create a Java GUI using NetBeans to implement it In addition to the Login table in this chapter you will also create a Client table In the case of the Client table you will learn how to generate and save public and private keys into a database You will also learn how to encrypt decrypt data and save the results into a database In chapter six you will create an Account table This account table has the following ten fields account_id primary key client_id primarykey account_number account_date account_type plain_balance cipher_balance decipher_balance digital_signature and signature_verification In this case you will learn how to implement generating and verifying digital prints and storing the results into a database In chapter seven you create a table named Client_Data which has seven columns client_data_id primary key account_id primary_key birth_date address mother_name telephone and photo_path In chapter eight you will be taught how to create a SQL Server database named Crime and its tables In chapter nine you will be taught how to extract image features utilizing BufferedImage class in Java GUI In chapter ten you will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo In chapter eleven you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 In chapter twelve you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In chapter thirteen you will add two tables Victim and File_Case The File_Case table will connect four other tables Suspect Police_Station Investigator and Victim The Victim table has nine columns victim_id primary key victim_name

crime_type birth_date crime_date gender address telephone and photo The File_Case has seven columns file_case_id primary key suspect_id foreign key police_station_id foreign key investigator_id foreign key victim_id foreign key status and description Here you will also design a Java GUI to display edit fill and delete data in both tables Finally this book is hopefully useful and can improve database programming skills for every Java PostgreSQL SQL Server programmer **FROM ZERO TO JDBC HERO** Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-10-01 In this book you will learn how to build from scratch a criminal records management database system using Java SQLite All Java code for digital image processing in this book is Native Java Intentionally not to rely on external libraries so that readers know in detail the process of extracting digital images from scratch in Java In chapter one you will create Bank database and its four tables In chapter two you will learn the basics of cryptography using Java Here you will learn how to write a Java program to count Hash MAC Message Authentication Code store keys in a KeyStore generate PrivateKey and PublicKey encrypt decrypt data and generate and verify digital prints In chapter three you will learn how to create and store salt passwords and verify them You will create a Login table In this case you will see how to create a Java GUI using NetBeans to implement it In addition to the Login table in this chapter you will also create a Client table In the case of the Client table you will learn how to generate and save public and private keys into a database You will also learn how to encrypt decrypt data and save the results into a database In chapter four you will create an Account table This account table has the following ten fields account_id primary key client_id primary key account_number account_date account_type plain_balance cipher_balance decipher_balance digital_signature and signature_verification In this case you will learn how to implement generating and verifying digital prints and storing the results into a database In chapter five you will create a Client_Data table which has the following seven fields client_data_id primary key account_id primary key birth_date address mother_name telephone and photo_path In chapter six you will create Crime database and its six tables In chapter seven you will be taught how to extract image features utilizing BufferedImage class in Java GUI In chapter eight you will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo In chapter nine you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 All six fields except keys will have a BLOB data type so that the image of the feature will be directly saved into this table In chapter ten you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In chapter eleven you will add two

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[SQLite with JDBC for Beginners](#) Vivian Siahaan,Rismon Hasiholan Sianipar,2019-09-29 In this book you will learn how to build from scratch a SQLite database management system using Java In designing a GUI and as an IDE you will make use of the NetBeans tool Gradually and step by step you will be taught how to use SQLite in Java In the first chapter you will learn How to create SQLite database and six tables In the second chapter you will study Creating the initial three table projects in the school database Teacher table TClass table and Subject table Creating database configuration files Creating a Java GUI for viewing and navigating the contents of each table Creating a Java GUI for inserting and editing tables and Creating a Java GUI to join and query the three tables In the third chapter you will learn Creating the main form to connect all forms Creating a project will add three more tables to the school database the Student table the Parent table and Tuition table Creating a Java GUI to view and navigate the contents of each table Creating a Java GUI for editing inserting and deleting records in each table Creating a Java GUI to join and query the three tables and all six tables In the last chapter you will study how to query the six tables Finally this book is hopefully useful and can improve database programming skills for every Java SQLite programmer

[Learn JDBC By Example: A Quick Start Guide to MariaDB and SQL Server Driven Programming](#) Vivian Siahaan,Rismon Hasiholan Sianipar,2019-11-24 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren t getting the most from MariaDB and SQL Server As you would expect this book shows how to build from scratch two different databases MariaDB and SQL Server using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In chapter one you will learn the basics of cryptography using Java Here you will learn how to write a Java program to count Hash MAC Message Authentication Code store keys in a KeyStore generate PrivateKey and PublicKey encrypt decrypt data and generate and verify digital prints You will also learn how to create and store salt passwords and verify them In chapter two you will create a PostgreSQL database named Bank and its tables In chapter three you will create a Login table In this case you will see how to create a Java GUI using NetBeans to implement it In addition to the Login table in this chapter you will also create a Client table In the case of the Client table you will learn how to generate and save public and private keys into a database You will also learn how to encrypt decrypt data and save the results into a

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Learning

MariaDB Vivian Siahaan,Rismon Hasiholan Sianipar,2019-09-03 In this book you will learn how to build from scratch a criminal records management database system using MariaDB Connector J As you know MariaDB server is a community developed fork of MySQL server Started by core members of the original MySQL team MariaDB actively works with outside developers to deliver the most featureful stable and sanely licensed open SQL server in the industry In the first chapter you will be taught how to create Crime database and its tables In the second chapter you will create Suspect table You will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo In the third chapter you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6

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[Learn SQLite with JDBC](#) Vivian Siahaan, Rismon Hasiholan Sianipar, 2019-09-30 In this book you will learn how to build from scratch a criminal records management database system using Java SQLite All Java code for digital image processing in this book is Native Java Intentionally not to rely on external libraries so that readers know in detail the process of extracting digital images from scratch in Java In the first chapter you will be shown how to create SQLite database and tables with Java In second chapter you will be taught how to extract image features utilizing BufferedImage class in Java GUI Digital image techniques to extract image features used in this chapter are grascaling sharpening inverting blurring dilation erosion closing opening vertical prewitt horizontal prewitt Laplacian horizontal sobel and vertical sobel For readers you can develop it to store other advanced image features based on descriptors such as SIFT and others for developing descriptor based matching In the third chapter you will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_status arrest_date mother_name address telephone and photo In the fourth chapter you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 All six fields except keys will have a BLOB data type so that the image of the feature will be directly saved into this table In the fifth chapter you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In the sixth chapter you will add two tables Victim and Case_File The File_Case table will connect four other tables Suspect Police_Station Investigator and Victim The Victim table has nine columns victim_id primary key victim_name crime_type birth_date

crime_date gender address telephone and photo The Case_File has seven columns case_file_id primary key suspect_id foreign key police_station_id foreign key investigator_id foreign key victim_id foreign key status and description Here you will also design a Java GUI to display edit fill and delete data in both tables Finally this book is hopefully useful for you **American Book Publishing Record**,2005 Choice,2006 **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio,2005-05 Introduction to Programming in Java Robert Sedgewick, Kevin Wayne,2017-04-04 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Programming skills are indispensable in today's world not just for computer science students but also for anyone in any scientific or technical discipline Introduction to Programming in Java Second Edition by Robert Sedgewick and Kevin Wayne is an accessible interdisciplinary treatment that emphasizes important and engaging applications not toy problems The authors supply the tools needed for students and professionals to learn that programming is a natural satisfying and creative experience and to become conversant with one of the world's most widely used languages This example driven guide focuses on Java's most useful features and brings programming to life for every student in the sciences engineering and computer science Coverage includes Basic elements of programming variables assignment statements built in data types conditionals loops arrays and I/O including graphics and sound Functions modules and libraries organizing programs into components that can be independently debugged maintained and reused Algorithms and data structures sort search algorithms stacks queues and symbol tables Applications from applied math physics chemistry biology and computer science Drawing on their extensive classroom experience throughout the text the authors provide Q As exercises and opportunities for creative engagement with the material Together with the companion materials described below this book empowers people to pursue a modern approach to teaching and learning programming Companion web site introcs.princeton.edu/java contains Chapter summaries Supplementary exercises some with solutions Detailed instructions for installing a Java programming environment Program code and test data suitable for easy download Detailed creative exercises projects and other supplementary materials Companion studio produced online videos informit.com/sedgewick are available for purchase and provide students and professionals with the opportunity to engage with the material at their own pace and give instructors the opportunity to spend their time with students helping them to succeed on assignments and exams Register your product at informit.com/register for convenient access to downloads updates and corrections as they become available **Gamoqenebit'i Mat'ematika Da Inp'ormatika**,1997 Hart's Oil and Gas World,1998 **The Art & Science of Java** Eric Roberts,2008 Introduction to Scientific and Technical Computing Frank T. Willmore, Eric Jankowski, Coray Colina,2017 Created to help scientists and engineers write computer code this practical book addresses the important tools and techniques that are necessary for scientific computing but which are not yet commonplace in science and engineering curricula An Introduction to Computer Science Using Java Samuel N. Kamin,2001

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