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The Java Way An Intro To Programming

Vivian Siahaan,Rismon Hasiholan Sianipar

The Java Way An Intro To Programming:

The Java Way Gerard Sparke,2011-01 The Java Way provides a clear and practical introductuon to computer programming in the Java language The book does not assume any programming experience but does assume a familiarity with introductory computer concepts The approach is learnig by example with sufficient cotext provided The main focus is a series of activities aimed at developing skills in programming that develop a concept as a series of steps that can be followed n a classroom of flexible delivery context Book cover   *Learn Java the Easy Way* Bryson Payne,2017-11-14 Java is the world s most popular programming language but it s known for having a steep learning curve Learn Java the Easy Way takes the chore out of learning Java with hands on projects that will get you building real functioning apps right away You ll start by familiarizing yourself with JShell Java s interactive command line shell that allows programmers to run single lines of code and get immediate feedback Then you ll create a guessing game a secret message encoder and a multitouch bubble drawing app for both desktop and mobile devices using Eclipse an industry standard IDE and Android Studio the development environment for making Android apps As you build these apps you ll learn how to Perform calculations manipulate text strings and generate random colors Use conditions loops and methods to make your programs responsive and concise Create functions to reuse code and save time Build graphical user interface GUI elements including buttons menus pop ups and sliders Take advantage of Eclipse and Android Studio features to debug your code and find fix and prevent common mistakes If you ve been thinking about learning Java Learn Java the Easy Way will bring you up to speed in no time   **Introduction to Java Programming** K. Somasundaram,2014-01-04 This book is intended for a one semester beginner s level course on Java programming It includes the new features included in JDK1 7 Each of its 16 chapters provide review questions for the readers to self test their learning Try It Out programs that enable the readers to develop programs for real life problems have also been included Introduction to Java Programming will help budding programmers solidify their foundation on Java and move on to higher level topics like Swing JDBC Servlets etc Key Features Simple presentation with an in depth explanation of concepts up to the required level Complete programs provided for each concept New features included in JDK1 7 Updated to J2SE7 Uses the recently introduced printf method defined in Console class instead of the classical statement System out println   **Introduction to Programming** Nick Samoylov,2018-06-15 Get a solid understanding of Java fundamentals to master programming through a series of practical steps Key Features Enjoy your first step into the world of programming Understand what a language is and use its features to build applications Learn about a wide variety of programming applications Book Description Have you ever thought about making your computer do what you want it to do Do you want to learn to program but just don t know where to start Instead of guiding you in the right direction have other learning resources got you confused with over explanations Don t worry Look no further Introduction to Programming is here to help Written by an industry expert who understands the challenges faced by those from a non programming background

this book takes a gentle hand holding approach to introducing you to the world of programming Beginning with an introduction to what programming is you ll go on to learn about languages their syntax and development environments With plenty of examples for you to code alongside reading the book s practical approach will help you to grasp everything it has to offer More importantly you ll understand several aspects of application development As a result you ll have your very own application running by the end of the book To help you comprehensively understand Java programming there are exercises at the end of each chapter to keep things interesting and encourage you to add your own personal touch to the code and ultimately your application What you will learn Understand what Java is Install Java and learn how to run it Write and execute a Java program Write and execute the test for your program Install components and confgure your development environment Learn and use Java language fundamentals Learn object oriented design principles Master the frequently used Java constructs Who this book is for Introduction to Programming is for anybody who wants to learn programming All you ll need is a computer internet connection and a cup of coffee   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   *The AI Way-TB-08* Shefali Gokarn, The AI Way series comprises eight books for grades 1 to 8 As the title of the series indicates the series introduces the learners to Artificial Intelligence The series makes the learners learn various concepts of computer science as a subject and has been designed to make learners aware of the areas where they can use involve artificial intelligence It makes the learners accomplished to deal with the constraints of the latest digital world It caters to inquiry oriented learning and a phenomenonbased approach that enables learners to interact with concepts and challenges from the real environment Learning is organised as projects and learners develop their understanding and design skills holistically   The Fast Way to Learn Java GUI with PostgreSQL and SQLite Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-15 This step by step guide to explore database programming using Java is ideal for people with little or no programming experience The goal of this concise book is not just to teach you Java but to help you think like a programmer Each brief chapter covers the material for one week of a college course to help you

practice what you ve learned As you would expect this book shows how to build from scratch two different databases PostgreSQL and SQLite 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 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 the first chapter 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 the second chapter 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 create a PostgreSQL database named School and its tables In chapter four 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 chapter five 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 six you will study how to query the six tables In chapter seven you will be shown how to create SQLite database and tables with Java In chapter eight 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 chapted are grascaling sharpening invertering 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 chapter nine 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 ten 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 eleven 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

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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 be shown how to create SQLite database and tables with Java In chapter seven 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 chapted are grascaling sharpening invertering 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 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 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 and can improve database programming skills for every Java MariaDB SQLite pogrammer   **Introduction to Programming Using Processing, Second Edition** Mark Meysenburg,2014-04-07 Written in an informal conversational and humorous style the second edition of Introduction to Programming Using Processing makes learning programming a fun experience The freely available Processing language is ideal for a first course in programming The simple to access graphics and multimedia capabilities of the language let students develop eye catching animated programs instead of traditional programs that print text to the console The text takes a classes later approach focusing on basics using objects selection iteration topdown design and arrays before writing classes Every example is presented in the context of the RADIS Requirements Analyze Design Implement Support framework with considerable attention paid to design Other positive habits like good commenting practice and coding style are emphasized as well   Current Issues in IT Education Tanya McGill,2003-01-01 Addressing the ongoing quest for teaching

excellence in an increasingly technological society the information presented in this volume addresses how to effectively implement teaching technologies across disciplinary boundaries The scholarly dimensions of belief inquiry argument and reflection in information systems are presented with attention to educational theories of metacognition technology literacy and community informatics Training for e business and public agency work are discussed to better equip instructors for the distinctive information needs of these sectors   *Computing in the Web Age: A Web-Interactive Introduction* Robert J. Dilligan,2007-05-08 This book reflects thirty years of experience in the applications of computer technology to literary research and instruction and in consulting work in office automation and system integration In that time I have again and again found myself in the position of having to introduce students both undergraduate and graduate colleagues and clients to the fundamentals of computer hardware and software Over the years as computers became both central and commonplace in professional life I have been aware of changing attitudes toward this technology From attitudes that ranged from the disdain of platonic dialecticians for mere technology to intimidation bordering at times almost on terror people have moved to incorporate this new technology into their frame of reference humani nil a me alienum The development of the microprocessor and its subsequent use for word processing marked one important watershed The widespread use of word processors made it more likely than not that people would own their own computers at least at work and use them as part of their work a day activities But while word processing provided some increased familiarity with computers it did not lead most indivi als much beyond a knowledge of the usual incantations needed to control the MultiMate or Nota Bene or Word Perfect golam and as a result of unhappy experience a begrudging acceptance of the need to make back up copies of important files

Trends in Functional Programming Hans Wolfgang Loidl,Ricardo Peña,2013-08-13 This book constitutes the thoroughly refereed revised selected papers of the 13th International Symposium on Trends in Functional Programming TFP 2012 held in St Andrews Scotland UK in June 2012 The 18 revised full papers included in this volume were carefully and selected from 49 submissions and are complemented with an invited paper They cover various aspects of trends in functional programming   Introduction to the Art of Programming Using Scala Mark C. Lewis,2012-11-05 With its flexibility for programming both small and large projects Scala is an ideal language for teaching beginning programming Yet there are no textbooks on Scala currently available for the CS1 CS2 levels Introduction to the Art of Programming Using Scala presents many concepts from CS1 and CS2 using a modern JVM based language that works we   **All of Programming** Andrew Hilton,Anne Bracy,2015-08-18 All of Programming provides a platform for instructors to design courses which properly place their focus on the core fundamentals of programming or to let a motivated student learn these skills independently A student who masters the material in this book will not just be a competent C programmer but also a competent programmer We teach students how to solve programming problems with a 7 step approach centered on thinking about how to develop an algorithm We also teach students to deeply understand how the code works by teaching students how to execute the code by

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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 **Principles and Practice of Constraint Programming - CP 2001** Toby Walsh,2003-06-30 This book constitutes the refereed proceedings of the 7th International Conference on Principles and Practice of Constraint Programming CP 2001 held in Paphos Cyprus in November December 2001 The 37 revised full papers 9 innovative applications presentations and 14 short papers presented were carefully reviewed and selected from a total of 135 submissions All current issues in constraint processing are addressed ranging from theoretical and foundational issues to advanced and innovative applications in a variety of fields *Higher Education Computer Science* Jenny Carter,Michael O'Grady,Clive Rosen,2018-09-21 There is currently a great emphasis on teaching quality in Higher Education In the UK the Teaching Excellence Framework and the National Student Survey have contributed significantly to this focus Additional support for staff to develop teaching skills has also come from the Higher Education Academy whose fellowship scheme encourages HE staff to focus on their practice in the classroom The growth in the number of students attending university has resulted in a much wider range of learning styles amongst them Many students do not fit the idealised average of being adept at learning from primarily text based media Two further trends are also driving change and innovation in academic staff teaching The first is the availability of online teaching materials such as MOOCs The second is the emphasis now given to student postgraduate employability represented by certain aspects of the Teaching Excellence Framework that require students not only to know information but also to be able to articulate that knowledge and to demonstrate their skills With a desire to enable our students to achieve their highest potential many staff undertake initiatives to facilitate learning that accommodate a wide range of learning styles This book focuses on approaches to teaching and learning within the discipline of Computer Science The book consists of a selection of chapters that describe a particular teaching activity or topic within Computing in HE presented in such a way that other practitioners can adopt and adapt them as a way of helping them to develop their own teaching It provides a number of practical cases of putting theory into practice when teaching Computer Science to both undergraduate and postgraduate students in Higher Education institutions A chapter on the importance of developing soft skills and a professional online presence is also included as an essential part of preparing the students for their future employment

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