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Date: 11th Sep 2022 In these "Java Programming Notes PDF FREE Download", we will be able to create Java programs that leverage the object-oriented features of the Java language, such as encapsulation, inheritance, and polymorphism; use data types, arrays, and other data collections; implement error-handling techniques using exception handling, create an event-driven GUI using Swing components. We have provided multiple complete Java Handwritten Notes PDF FREE Download for any university student of BCA, MCA, B.Sc, B.Tech CSE, M.Tech branch to enhance more knowledge about the subject and to score better marks in the exam. Students can easily make use of all these Java Programming Notes PDF FREE Download by downloading them. Topics in our Java Notes PDF The topics we will cover in these Java Notes PDF will be taken from the following list: OOP Concepts: Data abstraction, encapsulation, inheritance, Benefits of Inheritance, Polymorphism, classes, and objects. Procedural and object-oriented programming paradigms. Java Programming: History of Java, comments, Data types, Variables, Constants, Scope and Lifetime of variables, Operators, Operator Hierarchy, Expressions, Type conversion and casting, Enumerated types, Control flow- block scope, conditional statements, loops, break and continue statements, simple java stand-alone programs, arrays, console input and output, formatting output constructors, methods, parameter passing, static fields and methods, access control, this reference, overloading methods and constructors, recursion, garbage collection, building strings, exploring string class. Inheritance: Inheritance hierarchies super and subclasses, Member access rules, super keyword, preventing inheritance: final classes and methods, the Object class and its methods, Polymorphism: Dynamic binding, method overriding, abstract classes, and methods. Interfaces- Interfaces Vs Abstract classes, defining an interface, implement interfaces, accessing implementations through interface references, extending interface. Inner Classes: Uses of inner classes, local inner classes, anonymous inner classes, static inner classes, examples. Packages: Defining, creating, and accessing a package, Understanding CLASSPATH, importing packages. Exception handling: Dealing with errors, benefits of exception handling, the classification of exceptions- exception hierarchy, checked exceptions and unchecked exceptions, usage of try, catch, throw, throws and finally, rethrowing exceptions, exception specification, built-in exceptions, creating own exception subclasses. Multithreading: Differences between multiple processes and multiple threads, thread states, creating threads, interrupting threads, thread priorities, synchronizing threads, inter-thread communication, producer-consumer pattern, Exploring java.net, and java.text Collection Framework in Java: Introduction to java collections, Overview of java collection framework, Generics, Commonly used collection classes- Array List, Vector, Hash table, Stack, Enumeration, Iterator, String Tokenizer, Random, Scanner, Calendar, and Properties Files: Streams- Byte streams, Character streams, Text input/output, Binary input/output, random access file operations, File management using File class. Connecting to Database: JDBC Type 1 to 4 drivers, Connecting to a database, querying a database, and processing the results, updating data with JDBC. GUI Programming with Java: The AWT class hierarchy, Introduction to Swing, Swing Vs AWT, Hierarchy for Swing components, Containers – JFrame, JApplet, JDialog, JPanel. Overview of some Swing components – JButton, JLabel, JTextField, JTextArea, simple Swing applications, Layout management – Layout manager types – border, grid, and flow. Event Handling: Events, Event sources, Event classes, Event Listeners, Relationship between Event sources and Listeners, Delegation event model, Examples: Handling a button click, Handling Mouse events, Adapter classes. Applets: Inheritance hierarchy for applets, differences between applets and applications, Life cycle of an applet, Passing parameters to applets, applet security issues. Java Programming Notes PDF FREE Download Java Handwritten Notes PDF FREE Download Contributor: Tanya Garg College: KMV (DU) [signinlocker] [signinlocker] Java Handwritten Notes PDF FREE Download Contributor: Abhishek Sharma College: KMV (DU) [signinlocker] [signinlocker] Java hand written Notes PDF FREE Download Contributor: Abhishek Sharma College: KMV (DU) [signinlocker] [signinlocker] Java Handwritten Notes PDF FREE Download Source: nptel.ac.in [sociallocker] [/sociallocker] Core java notes pdf Source: iitb.ac.in [sociallocker] [/sociallocker] bca java programming notes pdf Source: iare.ac.in [sociallocker] [/sociallocker] Java programming pdf notes download Source: biet.ac.in [sociallocker] [/sociallocker] Java notes for beginners pdf free download Source: iitkgp.ac.in [sociallocker] [/sociallocker] Java notes for beginners pdf Source: swayam.gov.in [sociallocker] [/sociallocker] Core java best notes pdf free download Source: tutorialspoint.com [sociallocker] [/sociallocker] Java pdf notes Source: ocw.mit.edu [sociallocker] [/sociallocker] Java complete notes pdf Source: javatpoint.com [sociallocker] [/sociallocker] Java handwritten notes pdf free download in hindi Source: geeksforgeeks.org [sociallocker] [/sociallocker] Java Programming Books We have listed the best Java Programming Books that can help in your Java Programming exam preparation: Java Programming Handwritten Notes PDF FAQs Java is a high-level programming language originally developed by Sun Microsystems and released in 1995. Java runs on a variety of platforms, such as Windows, Mac OS, and the various versions of UNIX. Object Oriented: In Java, everything is an Object. Java can be easily extended since it is based on the Object model.Platform Independent: Unlike many other programming languages including C and C++, when Java is compiled, it is not compiled into platform-specific machine, rather into platform independent byte code.Simple: Java is designed to be easy to learn.Secure: With Java's secure feature it enables to develop virus-free, tamper-free systems.Portable: Being architecture-neutral and having no implementation dependent aspects of the specification makes Java portable.Multithreaded: With Java's multithreaded feature it is possible to write programs that can perform many tasks simultaneously.Interpreted: Java byte code is translated on the fly to native machine instructions and is not stored anywhere.Dynamic: Java is considered to be more dynamic than C or C++ since it is designed to adapt to an evolving environment. Computer Science Notes Date: URL: Author: Abhishek Sharma Oracle | Hardware and Software, Engineered to Work Together Copyright © 2016, Oracle and/or its affiliates. All rights reserved. Legal Notices Provides a set of "lightweight" (all-Java language) components that, to the maximum degree possible, work the same on all platforms. For a programmer's guide to using these components, see Creating a GUI with JFC/Swing, a trail in The Java Tutorial. For other resources, see Related Documentation. Swing's Threading Policy In general Swing is not thread safe. All Swing components and related classes, unless otherwise documented, must be accessed on the event dispatching thread. Typical Swing applications do processing in response to an event generated from a user gesture. For example, clicking on a JButton notifies all ActionListener added to the JButton. As all events generated from a user gesture are dispatched on the event dispatching thread, most developers are not impacted by the restriction. Where the impact lies, however, is in constructing and showing a Swing application. Calls to an application's main method, or methods in Applet, are not invoked on the event dispatching thread. As such, care must be taken to transfer control to the event dispatching thread when constructing and showing an application or applet. The preferred way to transfer control and begin working with Swing is to use invokeLater. The invokeLater method schedules a Runnable to be processed on the event dispatching thread. The following two examples work equally well for transferring control and starting up a Swing application: public class MyApp implements Runnable { public void run() { // Invoked on the event dispatching thread. // Construct and show GUI. } public static void main(String[] args) { SwingUtilities.invokeLater(new MyApp(args)); } } Or: public class MyApp { MyApp(String[] args) { // Invoked on the event dispatching thread. Do any initialization // here. } public void show() { // Show the UI. } public static void main(final String[] args) { // Schedule a job for the event-dispatching thread: // creating and showing this application's GUI. SwingUtilities.invokeLater(new Runnable() { public void run() { new MyApp(args).show(); } }); } } This restriction also applies to models attached to Swing components. For example, if a TableModel is attached to a JTable, the TableModel should only be modified on the event dispatching thread. If you modify the model on a separate thread you run the risk of exceptions and possible display corruption. As all events are delivered on the event dispatching thread, care must be taken in event processing. In particular, a long running task, such as network io or computational intensive processing, executed on the event dispatching thread blocks the event dispatching thread from dispatching any other events. While the event dispatching thread is blocked the application is completely unresponsive to user input. Refer to SwingWorker for the preferred way to do such processing when working with Swing. More information on this topic can be found in the Swing tutorial, in particular the section on How to Use Threads. Related Documentation For overviews, tutorials, examples, guides, and other documentation, please see:

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