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While we believe that this content benefits our community, we have not yet thoroughly reviewed it. If you have any suggestions for improvements, please let us know by clicking the "report an issue" button at the bottom of the tutorial. Interactive Learning Tests MCQs to test your knowledge. Forum Engage with the community. Compilers Compilers to execute code in browser. Our core Java programming tutorial is designed for students and working professionals. Java is an object-oriented, class-based, concurrent, secured and general-purpose computer-programming language. It is a widely used robust technology. What is Java? Java is a programming language and a platform. Java is a high level, robust, object-oriented and secure programming language. Java was developed by Sun Microsystems (which is now the subsidiary of Oracle) in the year 1995. James Gosling is known as the father of Java. Before Java, its name was Oak. Since Oak was already a registered company, so James Gosling and his team changed the name from Oak to Java. Platform: Any hardware or software environment in which a program runs, is known as a platform. Since Java has a runtime environment (JRE) and API, it is called a platform. Java Example Let's have a quick look at Java programming example. A detailed description of Hello Java example is available in next page. Simple.java class Simple { public static void main(String args[]){ System.out.println("Hello Java"); } } Test it Now According to Sun, 3 billion devices run Java. There are many devices where Java is currently used. Some of them are as follows: Desktop Applications such as acrobat reader, media player, antivirus, etc. Web Applications such as irctc.co.in, javatpoint.com, etc. Enterprise Applications such as banking applications. Mobile Embedded System Smart Card Robotics Games, etc. Types of Java Applications There are mainly 4 types of applications that can be created using Java programming: 1) Standalone Application Standalone applications are also known as desktop applications or window-based applications. These are traditional software that we need to install on every machine. Examples of standalone application are Media player, antivirus, etc. AWT and Swing are used in Java for creating standalone applications. 2) Web Application An application that runs on the server side and creates a dynamic page is called a web application. Currently, Servlet, JSP, Struts, Spring, Hibernate, JSF, etc. technologies are used for creating web applications in Java. 3) Enterprise Application An application that is distributed in nature, such as banking applications, etc. is called an enterprise application. It has advantages like high-level security, load balancing, and clustering. In Java, EJB is used for creating enterprise applications. 4) Mobile Application An application which is created for mobile devices is called a mobile application. Currently, Android and Java ME are used for creating mobile applications. Java Platforms / Editions There are 4 platforms or editions of Java: 1) Java SE (Java Standard Edition) It is a Java programming platform. It includes Java programming APIs such as java.lang, java.io, java.net, java.util, java.sql, java.math etc. It includes core topics like OOPs, String, Regex, Exception, Inner classes, Multithreading, I/O Stream, Networking, AWT, Swing, Reflection, Collection, etc. 2) Java EE (Java Enterprise Edition) It is an enterprise platform that is mainly used to develop web and enterprise applications. It is built on top of the Java SE platform. It includes topics like Servlet, JSP, Web Services, EJB, JPA, etc. 3) Java ME (Java Micro Edition) It is a micro platform that is dedicated to mobile applications. 4) JavaFX It is used to develop rich internet applications. It uses a lightweight user interface API. Prerequisite To learn Java, you must have the basic knowledge of C/C++ programming language. Audience Our Java programming tutorial is designed to help beginners and professionals. Problem We assure that you will not find any problem in this Java tutorial. However, if there is any mistake, please post the problem in the contact form. Do You Know? What will we learn in Basics of Java? Next TopicHistory of Java Our "Try it Yourself" editor makes it easy to learn Java. You can edit Java code and view the result in your browser. public class Main { public static void main(String[] args) { System.out.println("Hello World"); } } Try it Yourself » Click on the "Run example" button to see how it works. We recommend reading this tutorial, in the sequence listed in the left menu. Java is an object oriented language and some concepts may be new. Take breaks when needed, and go over the examples as many times as needed. Java Exercises Test your Java skills with a quiz. Start Java Quiz Learn by Examples Learn by examples! This tutorial supplements all explanations with clarifying examples. See All Java Examples My Learning Track your progress with the free "My Learning" program here at W3Schools. Log into your account, and start earning points! This is an optional feature, you can study W3Schools without using My Learning. Java Reference Java Keywords Java String Methods Java Math Methods Download Java Download Java from the official Java web site: Get certified by completing the course Get certified w3schools CERTIFIED . 2022 This Java tutorial for beginners is taught in a practical GOAL-oriented way. It is recommended you practice the code assignments given after each core Java tutorial to learn Java from scratch. This Java programming for beginners course will help you learn basics of Java and advanced concepts. What is Java? Java is a class-based object-oriented programming language for building web and desktop applications. It is the most popular programming language and the language of choice for Android programming. Java Syllabus First Steps in Java Basics Lesson 1 What is Java? — An introduction, Definition & Features of Java Platforms Lesson 2 JVM — What is Java Virtual Machine & its Architecture Lesson 3 Install JDK 8 — How to Download & Install Java JDK 8 in Windows Lesson 4 Install Eclipse — How to Download & Install Eclipse to Run Java Lesson 5 Install Java in Linux — How to Download & Install Java in Linux(Ubuntu) Lesson 6 First Java Program — Hello World: How to Create Your First Java Program Basics Concepts of Object-Oriented Programming (OOPs) Java Basics Language Constructs Learn Java String Tutorial Most Misunderstood Topics! Java Memory Management Abstract Class & Interface in Java Better Late than Never Exception Handling in Java Conditional Loops in Java Java Advance Stuff! Java Programs Java Differences Java Interview Questions, Tools & Books What will you learn in this Java Tutorial for Beginners? In this Java tutorial for beginners, you will learn Java programming basics like What is Java platform, JVM, how to install Java, OOPS concepts, variables, class, object, arrays, strings, command-line arguments, garbage collection, inheritance, polymorphism, interface, constructor, packages, etc. You will also learn advanced concepts like switch-case, functions, multithreading, swing, files, API, Java Spring, etc., in this Java basics for beginners guide. Prerequisites for learning Java Tutorial? This free Java for beginners tutorial is designed for beginners with little or no Java coding experience. These Java notes for beginners will help beginners to learn Java online for free. Why Learn Java Programming? Here are the reasons why you should learn Java: Java is very easy to learn. Java developers are in demand, and it easy to get a job as a Java programmer. It has a good collection of open-source libraries. Java is free. What are the Benefits of Java? Here are the benefits of Java: Java is object-oriented. It is platform-independent. You can effortlessly write, compile, and debug programs compare to other programming languages. Applications of Java Programming Following are the major applications of Java Programming language: Mobile Applications Web Applications Web and Application servers Enterprise Applications Embedded Applications Desktop GUI Applications What are the types of Java programs? Here are the types of Java Program: Stand-alone applications. Web Applications using JSP, Servlet, Spring, Hibernate, JSF, etc Mobile Applications Enterprise Applications How do I get real-time exposure to Java? You can get real-time exposure to Java by coding in live projects. You can join our Live Java Project to get your hands dirty in Java. This Java Tutorial has been prepared by well experienced Java Programmers for the Software Engineers to help them understand the basic to advanced concepts of Java Programming Language. After completing this tutorial, you will find yourself at a moderate level of expertise in Java, from where you can take yourself to the next levels. What is Java? Java is popular high-level, class-based object oriented programming language originally developed by Sun Microsystems and released in 1995. Currently Java is owned by Oracle and more than 3 billion devices run Java. Java runs on a variety of platforms, such as Windows, Mac OS, and the various versions of UNIX. Java is used to develop Mobile apps, Web apps, Desktop apps, Games and much more. Java is a general-purpose programming language intended to let programmers write once, run anywhere (WORA). This means that compiled Java code can run on all platforms that support Java without the need to recompile. This tutorial gives a complete understanding of Java starting from basic concepts to advanced concepts. This tutorial will take you through simple and practical approaches while learning Java Programming language. Java Jobs Java is very high in demand and all the major companies are recruiting Java Programmers to develop their Desktop, Web and Mobile applications. Today a Java Programmer with 3-5 years of experience is asking for around \$120,000 annual package and this is the most demanding programming language in America. Though it can vary depending on the location of the Job. Following are the great companies who are using Java and they need good Java Programmers: Google Microsoft Facebook IBM Amazon Netflix Pinterest Uber JetBrains Many more... So, you could be the next potential employee for any of these major companies. We have developed a great learning material for Java which will help you prepare for the technical interviews and certification exams based on Java. So, start learning Java using this simple and effective tutorial from anywhere and anytime absolutely at your pace. Why to Learn Java? Java is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Software Development Domain. If you will conduct a survey about the best programming language, Java is sure to come up. Java is fairly easy to learn, so if you are starting to learn any programming language then Java could be your great choice. There's also plenty of Java tools that make it easy for developers and beginners to use. There are many other good reasons which makes Java as the first choice of any programmer: Java is Open Source which means its available free of cost. Java is simple and so easy to learn Java is much in demand and ensures high salary Java has a large vibrant community Java has powerful development tools Java is platform independent Java Online Compiler We have provided Java Online Compiler which helps you to Edit and Execute the code directly from your browser. Try to click the icon to run the following Java code to print conventional "Hello, World!". Below code box allows you to change the value of the code. Try to change the value inside println() and run it again to verify the result. public class MyFirstJavaProgram { /\* This is my first java program. \* This will print 'Hello World' as the output \*/ public static void main(String []args) { System.out.println("Hello World"); // prints Hello World } } Java Applications The latest release of the Java Standard Edition is Java SE 18. With the advancement of Java and its widespread popularity, multiple configurations were built to suit various types of platforms. For example: J2EE for Enterprise Applications, J2ME for Mobile Applications. The new J2 versions were renamed as Java SE, Java EE, and Java ME respectively. Java is guaranteed to be Write Once, Run Anywhere. Multithreaded – With Java's multithreaded feature it is possible to write programs that can perform many tasks simultaneously. This design feature allows the developers to construct interactive applications that can run smoothly. Interpreted – Java byte code is translated on the fly to native machine instructions and is not stored anywhere. The development process is more rapid and analytical since the linking is an incremental and light-weight process. High Performance – With the use of Just-In-Time compilers, Java enables high performance. Distributed – Java is designed for the distributed environment of the internet. Dynamic – Java is considered to be more dynamic than C or C++ since it is designed to adapt to an evolving environment. Java programs can carry extensive amount of run-time information that can be used to verify and resolve accesses to objects on run-time. Target Audience This tutorial has been prepared for the beginners to help them understand the basics to advanced concepts of Java programming language. After completing this tutorial, you will find yourself at a moderate level of expertise in Java, from where you can take yourself to the next levels. Prerequisites Although it is a beginners tutorial, we assume that the readers have a reasonable exposure to any programming environment and knowledge of basic concepts such as variables, commands, syntax, etc. Java Questions & Answers You can explore a set of Java Questions and Answers at Java Questions & Answers

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