

Java Tutorial



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

Application

According to Sun, 3 billion devices run Java. There are many devices where Java is currently used. Some of them are as follows:

1. Desktop Applications such as acrobat reader, media player, antivirus, etc.
2. Web Applications such as irctc.co.in, javatpoint.com, etc.
3. Enterprise Applications such as banking applications.
4. Mobile
5. Embedded System
6. Smart Card
7. Robotics
8. 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 is the difference between JRE and JVM?
- What is the purpose of JIT compiler?
- Can we save the java source file without any name?
- Why java uses the concept of Unicode system?

What will we learn in Basics of Java?

- History of Java
 - Features of Java
 - Hello Java Program
 - Program Internal
 - How to set path?
 - Difference between JDK,JRE and JVM
 - Internal Details of JVM
 - Variable and Data Type
 - Unicode System
 - Operators
-

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R Programming
tutorial

R Programming



RxJS tutorial
RxJS



React Native
tutorial

React Native



Python Design
Patterns

Python Design
Patterns



Python Pillow
tutorial

Python Pillow



Python Turtle
tutorial

Python Turtle



Keras tutorial

Keras

Preparation



Aptitude

Aptitude



Logical
Reasoning

Reasoning



Verbal Ability

Verbal Ability



Interview
Questions

Interview Questions



Company
Interview
Questions

Company Questions

Trending Technologies



Artificial
Intelligence
Tutorial

Artificial
Intelligence



AWS Tutorial
AWS



Selenium
tutorial
Selenium



Cloud
Computing
tutorial

Cloud Computing



Hadoop tutorial

Hadoop



ReactJS
Tutorial

ReactJS



Data Science
Tutorial

Data Science



Angular 7
Tutorial

Angular 7



Blockchain
Tutorial

Blockchain



Git Tutorial
Git



Machine
Learning Tutorial
Machine Learning



DevOps
Tutorial
DevOps

B.Tech / MCA



DBMS tutorial
DBMS



Data Structures
tutorial
Data Structures



DAA tutorial
DAA



Operating
System tutorial
Operating System



Computer
Network tutorial
Computer Network



Compiler
Design tutorial
Compiler Design



Computer
Organization and
Architecture
Computer
Organization



Discrete
Mathematics
Tutorial
Discrete
Mathematics



Ethical Hacking
Tutorial
Ethical Hacking



Computer
Graphics Tutorial
Computer Graphics



Software
Engineering
Tutorial
Software
Engineering



html tutorial
Web Technology



Cyber Security
tutorial
Cyber Security



Automata
Tutorial
Automata



C Language
tutorial
C Programming



C++ tutorial
C++



Java tutorial
Java



.Net
Framework
tutorial
.Net



Python tutorial
Python



List of
Programs
Programs



Control
Systems tutorial
Control System



Data Mining
Tutorial
Data Mining



Data
Warehouse
Tutorial
Data Warehouse

