
This article is about the java programming language and the basics of this programming language. java is a general purpose, object-oriented computer programming language that was originally developed by James Gosling at Sun Microsystems in 1991. It has now evolved into a cross-platform, general-purpose software computing platform that's widely used around the world to create powerful applications, applets and components for use on everything from personal digital assistants to robotics systems. The language derives much of its syntax from C++ but has a simpler object model and fewer low level facilities. Java is built on the principle of "write once, run anywhere" (WORA), meaning that Java-based code can run on all platforms that support Java without the need for recompilation. While there are some differences between the JVM implementations on various platforms, these are typically confined to details (e.g., system calls) and not visible to Java programs. Unlike many other programming languages, Java does not use semicolons after each statement. The syntax of the language has been extended in recent years to make it easier to write code; notable additions include support for anonymous classes (added in JDK 1.5) and syntax for iterator blocks (added in JDK 1.6). This article will provide the reader with the basics of java programming language.

Java Language Specification From Sun, Java Technology Home Page http://java.sun.com/docs/books/jls/second_edition/html/ 1 Introduction to Classes and Objects 2 Classes, Objects, and the Class Hierarchy 3 Packages 4 Nested Classes, Inner Classes, Local Classes, and Anonymous Inner Classes 5 Annotations (Metadata) 6 Semicolons; Blocks; Statements 7 Identifiers and Basic Syntax 1 Compiling Program in JAVA 1.0 The output of program shown below is :- 1. class TestClass { 2. public static void main(String [] args) { 3. int x=10; 4. System.out.println(" X="+x); 5. 6. int y=x; 7. } 8. } The output of program shown below is :-

2 Introduction to JAVA 1.0

3 Data Types in JAVA 1.0 The output of program shown below is :-

4 Operators in JAVA Programming Language 1.0 The output of program shown below is :-

5 Decision Making in JAVA Programming Language 1.0 The output of program in this section is :-

6 Arrays in JAVA Programming Language 1.0 The output of program shown below is :-

7 Numbers and Maths in JAVA Programming Language 1.0 The output of program shown below is :- 10.1 Basic Mathematics Operators & Java Expressions 10.2 Constants and Variables 10.3 Constants and Variables 10.4 Constants and Variables 10.5 Constants and Variables 11 String Functions & Java Expressions 11.1 String Functions: Strings vs Character etc.. 11.2 String Functions: Concatenation 11.3 String Functions: Length etc..

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