

EduLanka - Java programming

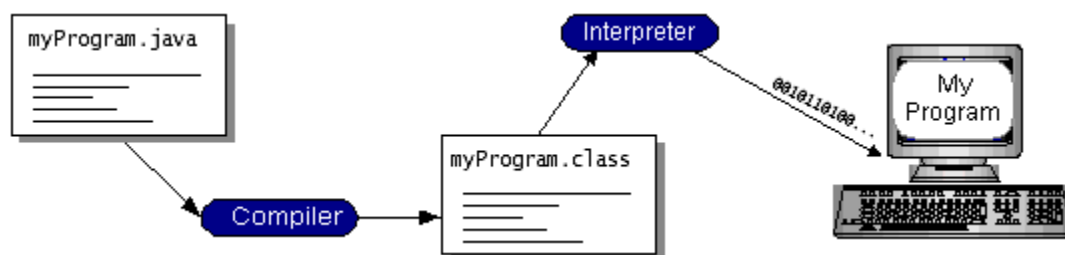
Lesson 01 Starting Java

History of Java

Java is the fastest growing programming language in the world. Companies such as IBM and Sun have adopted Java as their major application development language. Some milestones of Java programming language are given below.

- Java was developed by James Gosling at Sun Microsystems in 1991
- His original aim was to develop a low cost hardware independent language based on C++
- Due to technical reasons that idea was dropped
- A new programming language called Oak was developed based on C++
- The language Oak was developed by removing following undesirable features of C++
Multiple inheritance, Automatic type conversions, and use of pointer & memory management
- By 1994 the WWW emerged and Oak was renamed as Java
- The Java language was successfully used to develop a Web Browser called WebRun and Java/HotJava project was commenced
- In early 1995, Hotjava, Java, Java Documentation and source code was made available over the Web as an Alpha version
- In December 1995, Beta version of Java was released.
- On January 1996, Java 1.0 was officially released and made available to download over the Internet
- Latest version of Java 2SDK and documentation can be download at Java.sun.com

Java works like this



Before starting Java

First step is install java program into your computer. It is like a setup file or some time it has a folder.

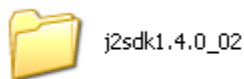
Java versions

Js2dk or JDK 1.1, 1.2, 1.3, 1.4, 1.5, 1.6...

Install Java

Method 1

If you have JDK file,



Copy this folder into your hard disk. Eg:- C:/

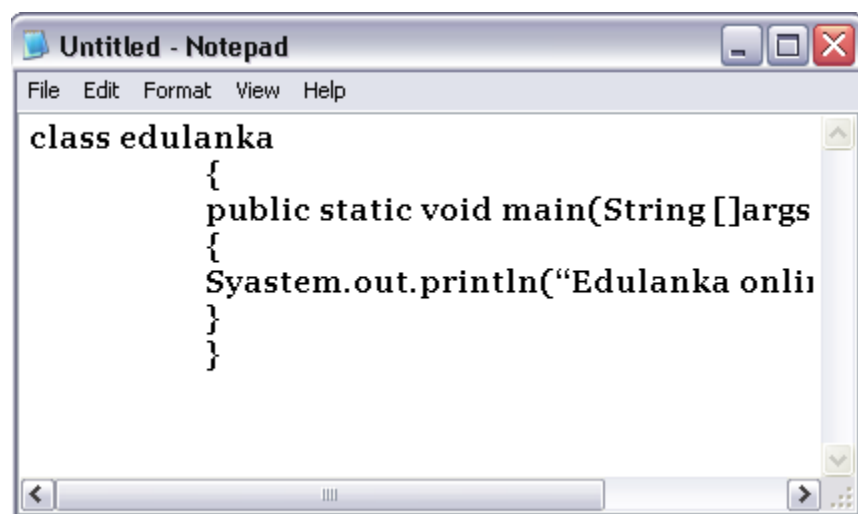
Method 2

If you have Setup file,

Install j2sdk1.4 or js2dk1.5 file to your hard disk. Jdk1.3 or any java application available at programming cd's or you can download java from Internet.

Starting Java

Java programs usually write in Note pad in windows.



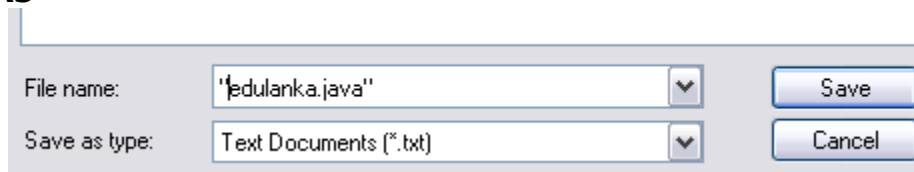
```
class edulanka
{
    public static void main(String []args
    {
        System.out.println("Edulanka onli
    }
}
```

Consider this little java program

```
class edulanka
{
    public static void main(String []args)
    {
        System.out.println("Edulanka online
        Education");
    }
}
```

Type this little java program in your note pad. Then Save the file with Extension of "java". In this program you must save "edulanka.java". Every java program is written on classes. Above little program also have class called edulanka. Because of that we save this java program "edulanka.java".

Save As



Compile java program

After save the java file we should compile it. Compile is convert text java file into binary codes. Compile is done by javac.exe file. That file is at C:/j2sdk1.4/bin folder. In this case we should open javac file in our command prompt.

If you save your java file in D:/java folder then open the command prompt Start → All programs → Accessories → cmd



Go to your directory with cd command and cd.. Command

```
C:\ C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Alawathugoda.com>cd\
C:\>d:
D:\>cd java
D:\java>
```

Then create or give the real path of javac file to command prompt like this. If your js2dk1.4 or jdk1.4 or other java folder file at c:\,

```
D:\java>path c:\jdk1.4.0_02\bin
D:\java>_
```

Then you can compile the java program like this. Type javac and put space then type your java name and extension.

If you have some errors on java file display like this,

```
D:\java>javac edulanka.java
edulanka.java:5: illegal character: \8220
    System.out.println("Edulanka online Education");
                        ^
edulanka.java:5: illegal character: \8221
    System.out.println("Edulanka online Education");
                        ^
edulanka.java:5: ')' expected
    System.out.println("Edulanka online Education");
                        ^
3 errors
```

If you find error please check source code and correct it. Then compile it again.

Since errors become zero program cannot run.

Otherwise display like this,

```
D:\java>javac edulanka.java
D:\java>
```

That means program has not errors then you can run the program.
First type java and only file name.

```
D:\java>  
D:\java>  
D:\java>java edulanka  
Edu lanka online Education  
D:\java>
```

That is way to run a little java program.

Practice your self java programs.

JAVA PROGRAMMING
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