

What is Java?

Java is a programming language that is platform independent that means you can run java code on any operating system like windows, linux, macos without changing code of a java program.

Java has two parts

- Java Runtime Environment
- Java Development Kit

Java Runtime Environment is a software that allows you run same java code on windows, linux and macos. Java Runtime Environment is different for every operating system and you can download jre short form for Java Runtime Environment from official website of Java.

Java Development Kit is a software that allows you to create Java Applications. It is also different for every operating system like windows, linux and macos.

Following is the code of a simple Java class that prints Hello World on the output screen.

Save the following code in abc.java

```
class abc
{
    public static void main(String args[])
    {
        System.out.println("Hello World");
    }
}
```

Save this code in file abc.java.

Now the class name in which main function is present should be same as that of the file.

How to run the above code and view output

Steps

`javac abc.java`

`java abc`

When you run `javac abc.java`, a class file with name `abc.class` is created which consists of bytecode which is just like machine code for java,

when you run `java abc` the java interpreter interprets the class file and output will be shown as "Hello World"

How to Install JRE and JDK on your System.

Go to www.google.com and type download jdk and go to Oracle Website and download java jdk

it will show the following output.

x64 Installer	159.95 MB	https://download.oracle.com/java/20/latest/jdk-20_windows-x64_bin.exe (sha256)
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After installing Java JDK you can use simple notepad to write java code

or there are many Integrated Development Environments present to write code.

Popular are Eclipse, Netbeans and BlueJ.