

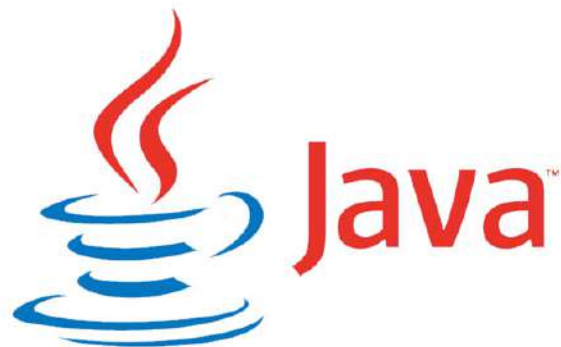
# Codenza Java Guide



Codenza Development Team

Fall 2017

# Codenza Java Guide



## Beginner User

Download and install Netbeans / Eclipse IDE from the Links below:-

<https://netbeans.org/downloads/>

<https://eclipse.org/downloads/>

### **Netbeans System Requirements:-**

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Windows – 7 (SP1), 8, 8.1, 10.

Ubuntu – 14.04 or greater.

Mac OS – 10.10 or greater.

Java - 7 or greater.

JDK – 1.7 or greater (includes JRE).

Processor – Any Dual Core or better.

RAM – 2GB (Windows-32 bit / Ubuntu-32), 4GB (Windows-64 bit /

Ubuntu-64 bit / Mac OS – 64 bit)

Disk Space – 1.5GB or greater.

### **Eclipse System Requirements:-**

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Windows – 7 (SP1), 8, 8.1, 10.

Ubuntu – 14.04 or greater.

Mac OS – 10.10 or greater.

Java - 7 or greater.

JDK – 1.7 or greater (includes JRE).

Processor – Any Dual Core or better.

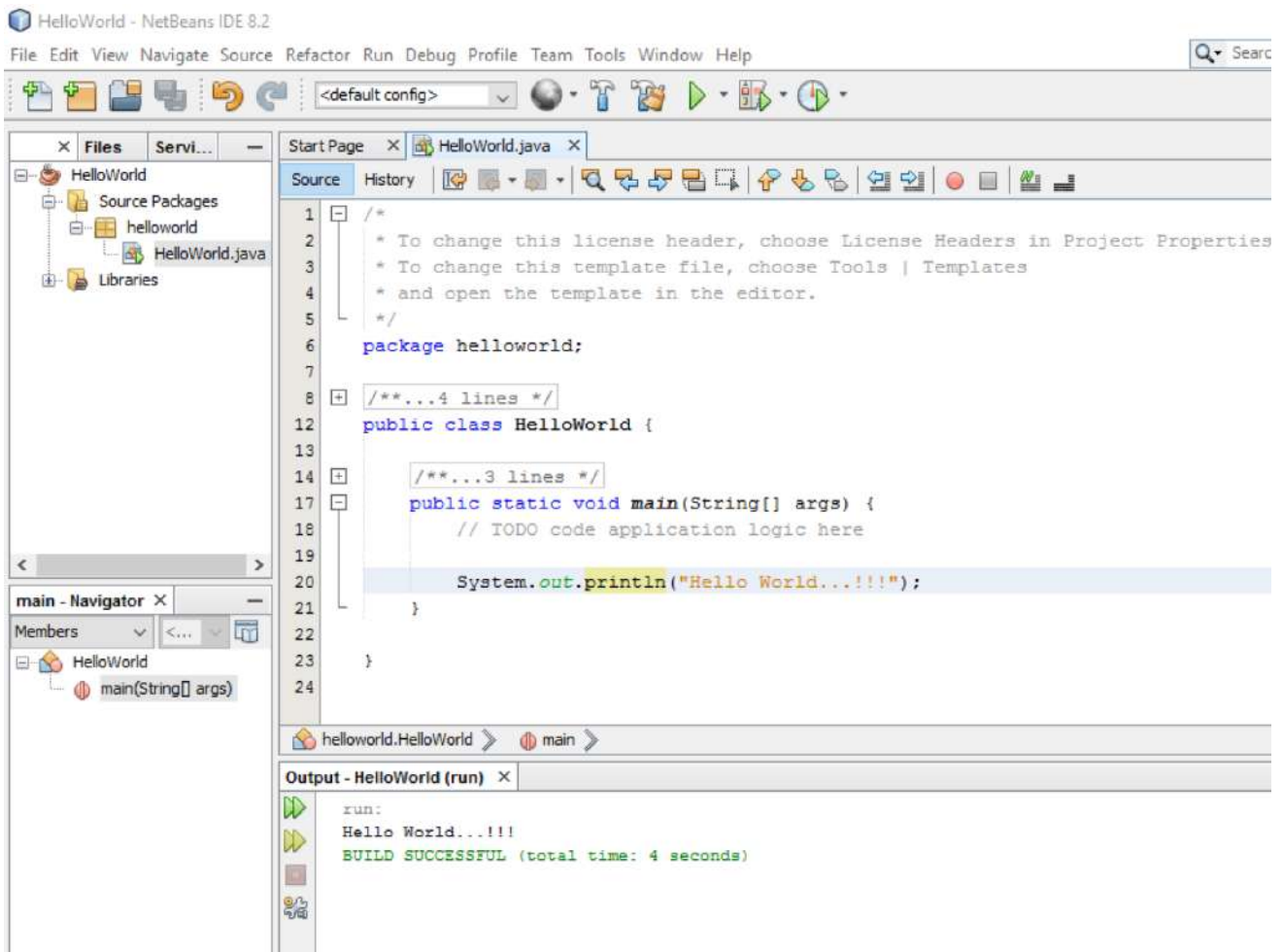
RAM – 2GB minimum or greater.

Disk Space – 1GB or greater.

## Building and Executing the Program: -

### Netbeans:-

Click on File -> New Project -> Categories -> Java -> Java Application -> Next and a new project will be created in Netbeans.



Build the Program & Execute the Program

## Eclipse: -

Click File -> New Project -> Enter Project Name -> Enter Class Name and it will create a new Java Project.

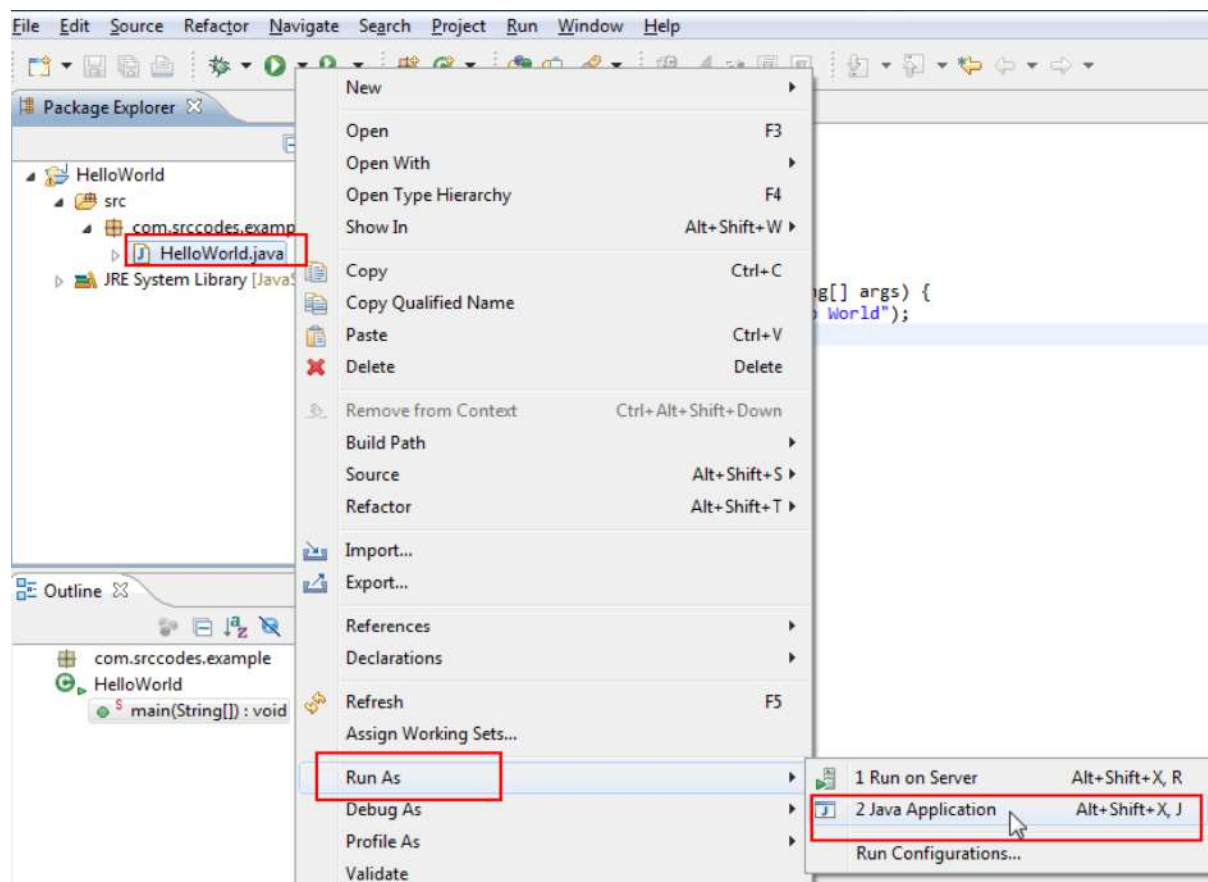
Right click on 'src' folder and select from context menu New --> Package.

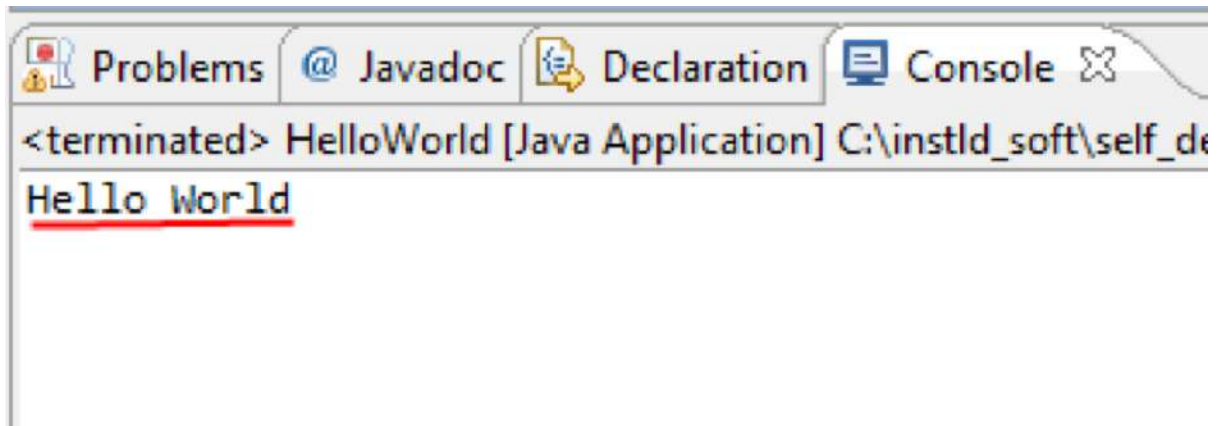
Write 'package\_name' in the 'Name' field and click "Finish" button.

Right click on 'com.srccodes.example' package and select from context menu New --> Class.

Write "HelloWorld" in the 'Name' field and select the checkbox for 'public static void main(String[] args)'.

Click "Finish" button. Eclipse will generate a java class and open the same in the java editor as shown below.





Build & Execute

# Mac Os:

Download CodeRunner for Mac.

The UI is very simple for a Mac User. Just type the program and select “java” in Language Selection Menu.

CodeRunner IDE: -

An advanced, highly flexible, and easy-to-use **programming editor for your Mac**. CodeRunner supports a large number of languages, and delivers big IDE features while remaining lightweight and clutter-free.

System Requirements: -

Mac OS – 10.7+ (latest version preferred).

Xcode (latest version preferred).

Xcode Command Line Tools.

Note: - Though it is a paid software , it is also available as a Trial Software

The image shows a screenshot of the CodeRunner application window. The title bar includes the Apple logo, the name 'CodeRunner', and a menu bar with 'File', 'Edit', 'Text', 'Run', 'View', 'Window', and 'Help'. The window title is 'Untitled 2.java - Edited'. Below the title bar is a toolbar with a language dropdown set to 'Java', 'Run' and 'Stop' buttons, and a 'Run Settings...' button. The main editor area shows the following Java code:

```
1 import java.util.Scanner;
2 class Untitled {
3     public static void main(String[] args) {
4         int x, y, z;
5         System.out.println("Enter two integers to calculate their sum ");
6         Scanner in = new Scanner(System.in);
7         x = in.nextInt();
8         y = in.nextInt();
9         z = x + y;
10        System.out.println("Sum of entered integers = "+z);
11    }
12 }
```

Below the code editor is a terminal window showing the execution output:

```
Enter two integers to calculate their sum
4
6
Sum of entered integers = 10
```

## Expert User

Expert users prefer the command line interface more vs the IDE environment as it provides greater flexibility.

Create and save java file in your preferred text editor, I prefer Sublime Text.

I assume you have set path so that you can access the Java Compiler from any directory.

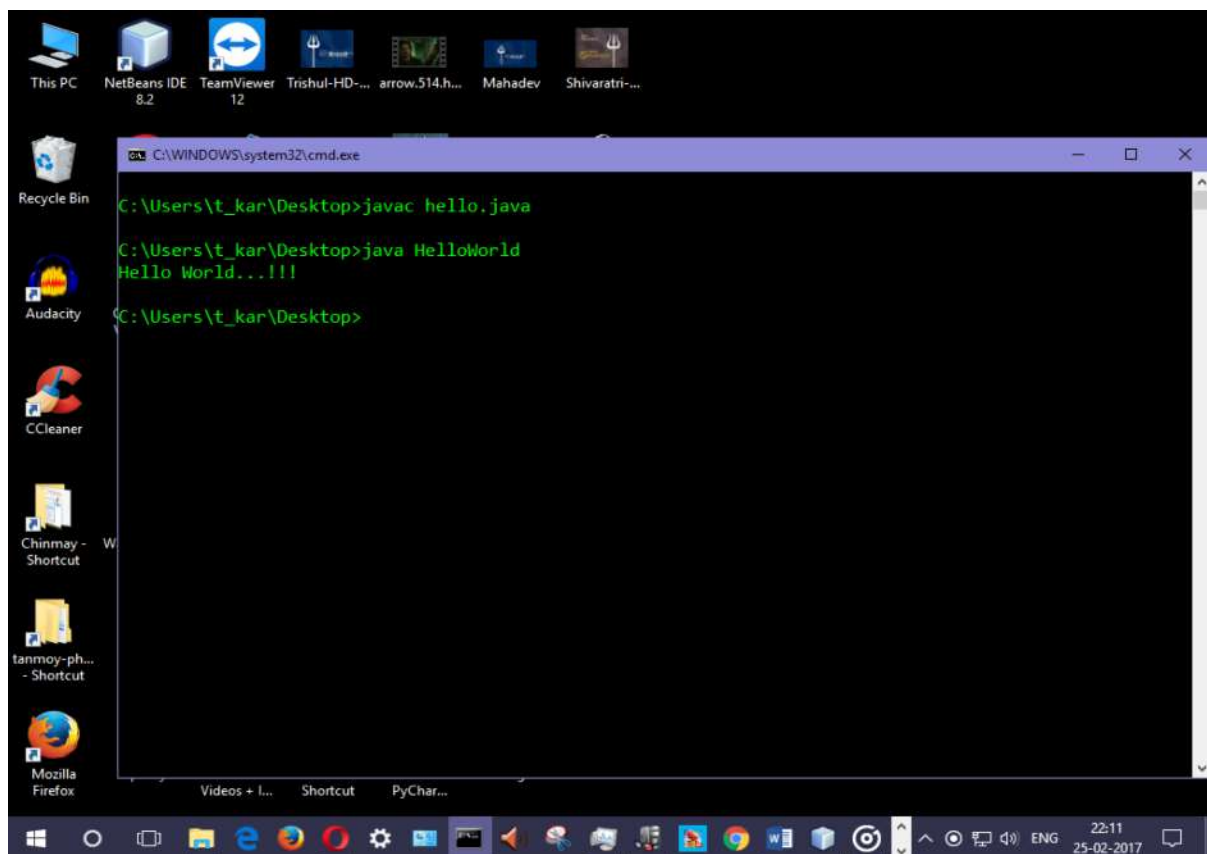
Java Compiler is in

Windows: - C:\Program Files\Java\jdk\_version\bin

Linux: - /usr/bin/java

Mac OS: - /usr/bin/java

### Executing the Program:



The screenshot shows a Windows desktop environment. A command prompt window is open, displaying the following commands and output:

```
C:\WINDOWS\system32\cmd.exe
C:\Users\t_kar\Desktop>javac hello.java
C:\Users\t_kar\Desktop>java HelloWorld
Hello World...!!!
C:\Users\t_kar\Desktop>
```

The desktop background is dark, and the taskbar at the bottom shows various application icons, including NetBeans IDE, TeamViewer, and Mozilla Firefox. The system tray in the bottom right corner displays the time as 22:11 and the date as 25-02-2017.