1.2 Setup for Java

1.2.1 Tools You Will Need

For performing the examples discussed in this tutorial, you will need a Pentium 200-MHz computer with a minimum of 64 MB of RAM (128 MB of RAM recommended).
- You will also need the following softwares:
  - ❏ Linux 7.1 or Windows XP/7/8 operating system
  - ❏ Java JDK 8
  - ❏ Microsoft Notepad or any other text editor

This tutorial will provide the necessary skills to create GUI, networking, and web applications using Java.

1.2.2 Environment Setup

- If you are still willing to set up your environment for Java programming language, then this section guides you on how to download and set up Java on your machine.
- Following are the steps to set up the environment.
- <u>Java SE is freely available from the link Download Java.</u>
- You can download a version based on your operating system.
- Follow the instructions to download Java and run the **.exe** to install Java on your machine.
- Once you installed Java on your machine, you will need to set environment variables to point to correct installation directories:
- Click the 'Environment variables' button under the 'Advanced' tab.

❑ Setting Up the Path for Windows:

Assuming you have installed Java in ***c:\Program Files\java\jdk*** **directory:**

> ➤ Right-click on 'My Computer' and select 'Properties'.
> ➤ Now, alter the 'Path' variable so that it also contains the path to the Java executable.

Example: if the path is currently set to 'C:\WINDOWS\SYSTEM32', then change your path to read 'C:\WINDOWS\SYSTEM32;**c:\Program Files\java\jdk\bin**'.

❑ Setting Up the Path for Linux, UNIX, Solaris, FreeBSD:

> ➤ Environment variable PATH should be set to point to where the Java binaries have been installed. Refer to your shell documentation, if you have trouble doing this.
> ➤ Example, if you use ***bash*** as your shell, then you would add the following line to the end of your
> ➤ **'.bashrc: export PATH=/path/to/java:$PATH'**

1.2.3 Popular Java Editors:

To write your Java programs, you will need a text editor. There are even more sophisticated IDEs available in the market. But for now, you can consider one of the following:

❑ **Notepad:** On Windows machine, you can use any simple text editor like Notepad (Recommended for this tutorial), TextPad.

❑ **Netbeans:** A Java IDE that is open-source and free, which can be downloaded from http://www.netbeans.org/index.html.

❑ **Eclipse:** A Java IDE developed by the eclipse open-source community and can be downloaded from http://www.eclipse.org/.