# Installation and Environment Setting

## Installation

- Download the latest version j2se5.0 (java 2 standard edition) from http://java.sun.com or get it from any other source like CD.

  **Note:** j2se also called jdk (java development kit). You can also use the previous versions like jdk 1.4 or 1.3 etc. but it is recommended that you use either jdk1.4 or jdk5.0

- Install j2se5.0 on your system

  **Note:** For the rest of this handout, assume that j2se is installed in  C:\Program Files\Java\jdk1.5.0

## Environment Setting

Once you successfully installed the j2se, the next step is environment or path setting. You can accomplish this in either of two ways.

- **Temporary Path Setting**

  - Open the command prompt from Start → Programs → Accessories → Command Prompt. The command prompt screen would be opened in front of you.

  - Write the command on the command prompt according to the following format

    path = < java installation directory\bin >

    So, according to handout, the command will look like this

    path = C:\Program Files\Java\jdk1.5.0\bin

  - To Test whether path has been set or not, write javac and press ENTER. If the list of options displayed as shown in the below figure means that you have successfully completed the steps of path setting.

    The above procedure is illustrates in the given below picture.

```
C:\WINDOWS\system32\cmd.exe                                    _ □ ×

C:\>path=C:\Program Files\Java\jdk1.5.0\bin

C:\>javac
Usage: javac <options> <source files>
where possible options include:
  -g                          Generate all debugging info
  -g:none                     Generate no debugging info
  -g:{lines,vars,source}      Generate only some debugging
  -nowarn                     Generate no warnings
  -verbose                    Output messages about what t
  -deprecation                Output source locations wher
sed
  -classpath <path>           Specify where to find user c
  -cp <path>                  Specify where to find user c
  -sourcepath <path>          Specify where to find input
  -bootclasspath <path>       Override location of bootstr
  -extdirs <dirs>             Override location of install
```
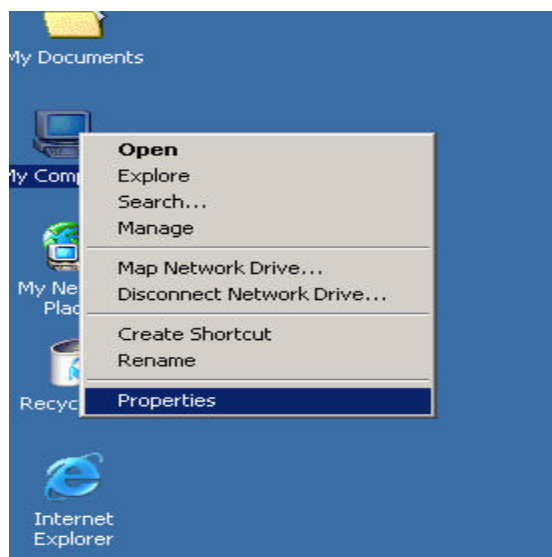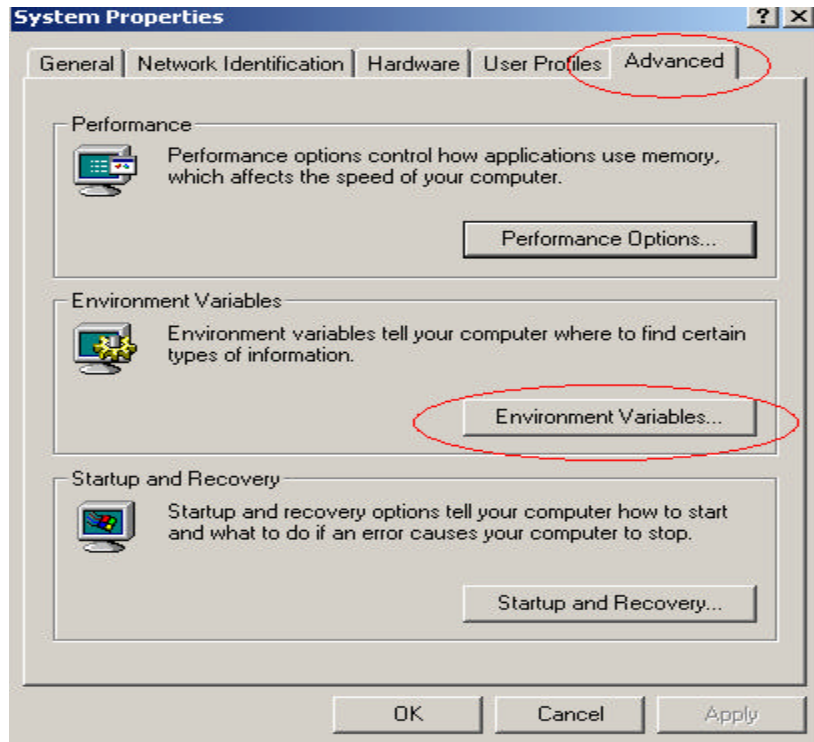
Note: The issue with the temporary path setting is you have to repeat the above explained procedure again and again each time you open a new command prompt window. To avoid this overhead, it is better to set your path permanently
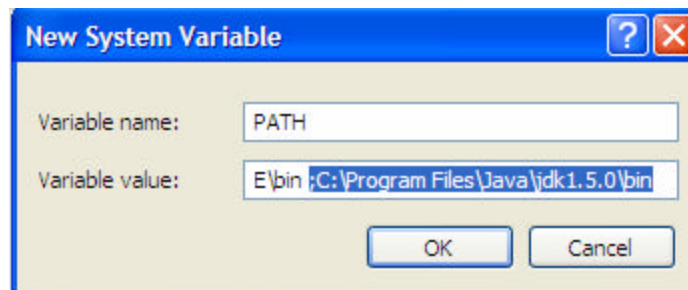
- **Permanent Path Setting**

  - In Windows NT (XP, 2000), you can set the permanent environment variable.
  - Right click on **my computer** icon click on properties as shown below

- A System Properties frame would appeared as shown in the picture



- Select the advanced tab followed by clicking the Environment Variable button. The Environment variables frame would be displayed in front of you

- Locate the Path variable in the System or user variables, if it is present there, select it by single click. Press Edit button. The following dialog box would be appeared.



- Write **;C:\Program Files\Java\jdk1.5.0\bin** at the end of the value field. Press OK button. Remember to write semicolon (;) before writing the path for java installation directory as illustrate in the above figure

- If Path variable does not exist, click the New button . Write variable name "PATH", variable value **C:\Program Files\Java\jdk1.5.0\bin** and press OK button.

- Now open the command prompt and write **javac**, press enter button. You see the list of options would be displayed.

- After setting the path permanently, you have no need to set the path for each new opened command prompt.

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