**How to compile a java file?**

Step1:Create java program file and save it with .java extension (like first.java)

Step 2:Open command prompt on specific path(install java first and set path if not set)

Step 3: Write Command javac <java program name> (javac first.java)

Step 4: Now java code convert to byte code and we can run using command java <class name>(eg.java first)

**How to run a class file?**

Go to command prompt and write command java <class file name>(like java first)

**How to debug a java file?**

Go to eclipse right click on program and click on debug

A breakpoint is a signal that tells the debugger to temporarily suspend execution of your program at a certain point in the code.

To define a breakpoint in your source code, right-click in the left margin in the Java editor and select *Toggle Breakpoint*. Alternatively, you can double-click on this position.

**How to set classpath?**

Step 1:Select Start, select Control Panel. double click System, and select the Advanced tab.

Step 2:Click Environment Variables. In the section System Variables, find the PATH environment variable and select it.

Step 3:In the Edit System Variable (or New System Variable) window, specify the value of the PATH environment variable. Click OK.

**How to set destination of the class file?**

In general, when a java file is compiled the generated *” .class”* file will also be saved in the same folder. In order to set the destination of .class file we use -d option while compiling the *” .java”* file, as shown below:

javac filename.java -d "path to store the .class file"

**How to run a compiled class file?**

Using command java <compiled class file name> (eg. java first)

**How to check version of java running on your system?**

Use Command java -version

**How to set classpath when class files are in .jar file?**

To set the CLASSPATH environment variable, find the location of user environment variables in the machine and add all paths where Jar files are stored. Use the separator between different two folders, jar files or classes.

1. From the desktop, right click the Computer icon.
2. Choose Properties from the context menu.
3. Click the Advanced system settings link.
4. Click Environment Variables. In the section System Variables, find the CLASSPATH environment variable and select it. Click Edit. If the CLASSPATH environment variable does not exist, click New.
5. Add all folders separated with separator. Click OK. Close all remaining windows by clicking OK.