

Environmental Variables

For using Java and in particular Java Servlets, the Java Development Kit (JDK) needs to be downloaded; also required is the Java Runtime Environment (JRE). Then classpaths need to be set in the Environmental Variables within the System Properties of the pc as well as the path for Tomcat.

For example, the environmental variables set up for this task are:

```
ANT_HOME C:\Ant\apache-ant-1.7.1
CATALINA_HOME C:\Program Files\Apache Software Foundation\Tomcat 6.0
JAVA_HOME C:\Program Files\Java\jre6
PATH C:\Program Files\Java\jdk1.6.0_12\bin;C:\Ant\apache-ant-1.7.1\bin
TEMP %USERPROFILE%\LocalSettings\Temp
TMP %USERPROFILE%\LocalSettings\Temp
TOMCAT_HOME C:\Program Files\Apache Software Foundation\Tomcat 6.0
```

Code for compiling the servlet in the command prompt

```
JAVAC -Djava.ext.dirs=$TOMCAT_HOME/lib petservlet.java
```

When the command prompt returns the file path, as it has in the screenshot above, then it means that the file has compiled correctly, and there will be a new file created, a class file and that will be in the directory as designated in the command line, in this instance, it is in c://Program Files/Apache Software Foundation/Tomcat 6.0/lib/petservlet.class.

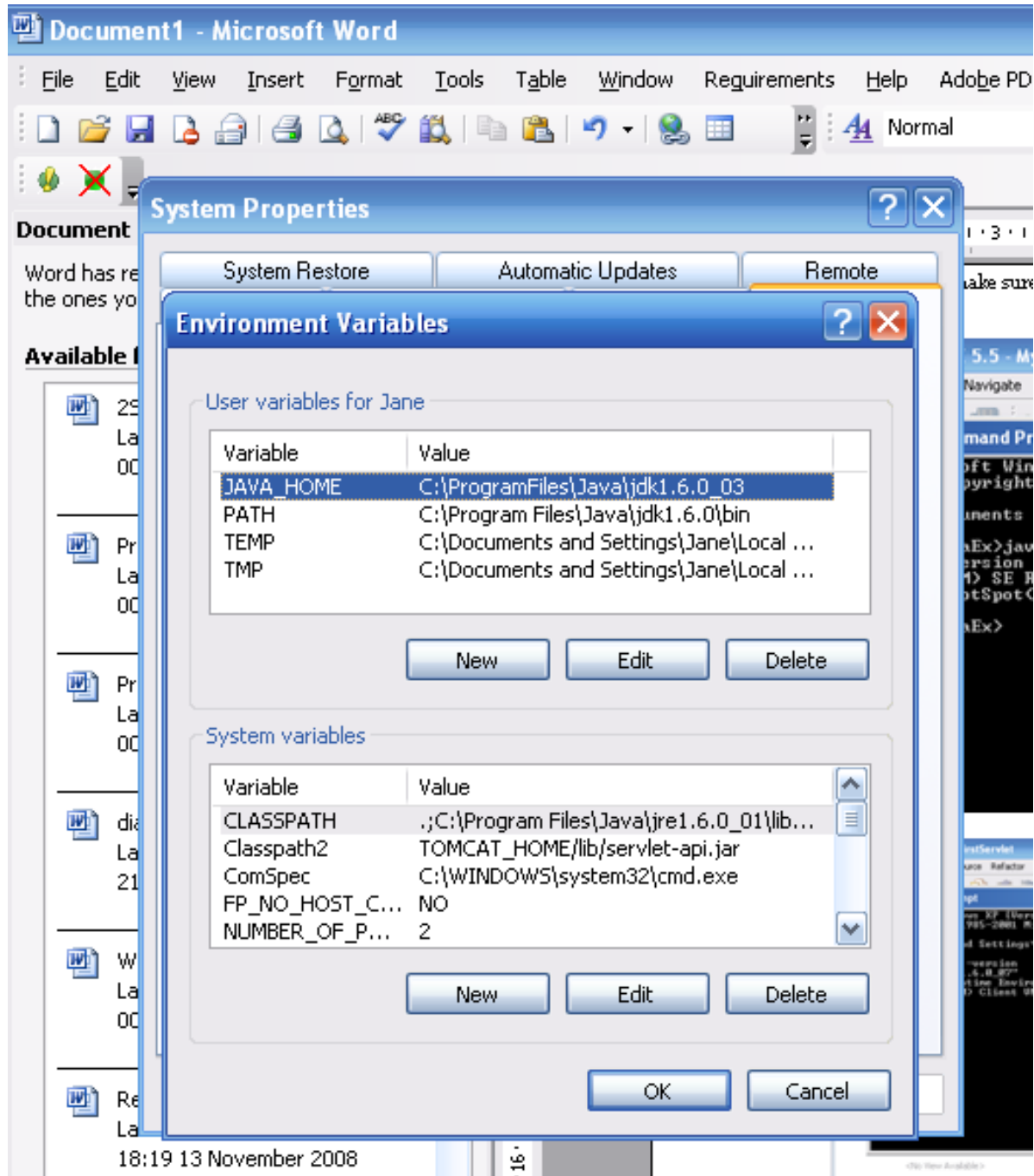
Therefore \$TOMCAT_HOME in the command prompt points to c://Program Files/Apache Software Foundation/Tomcat 6.0

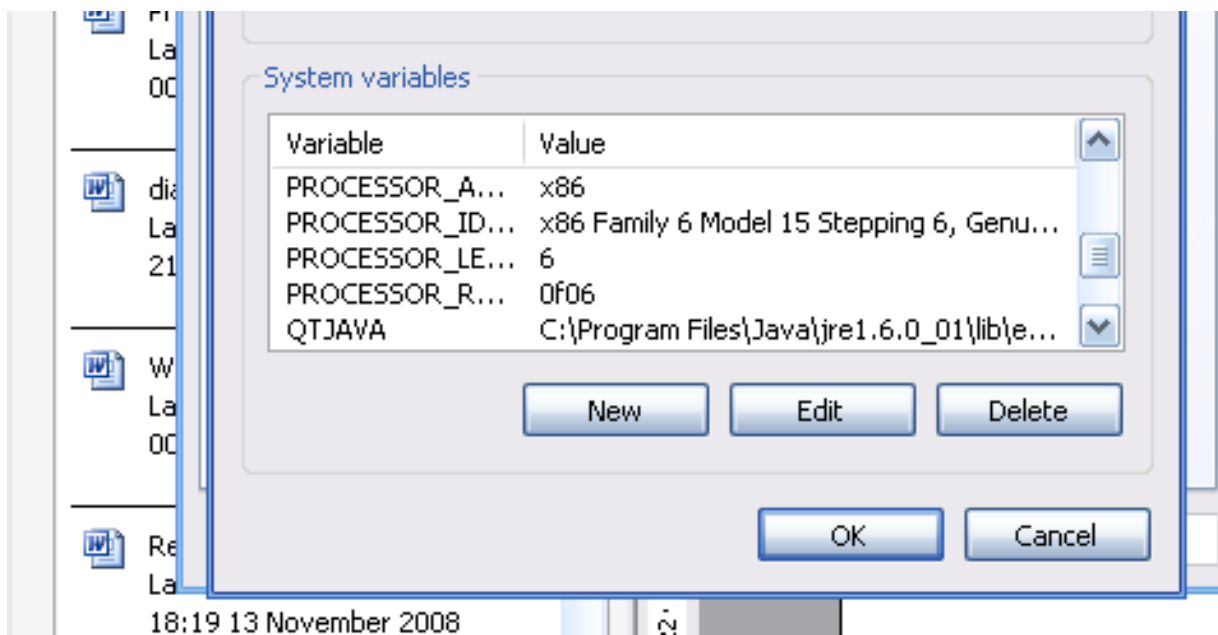
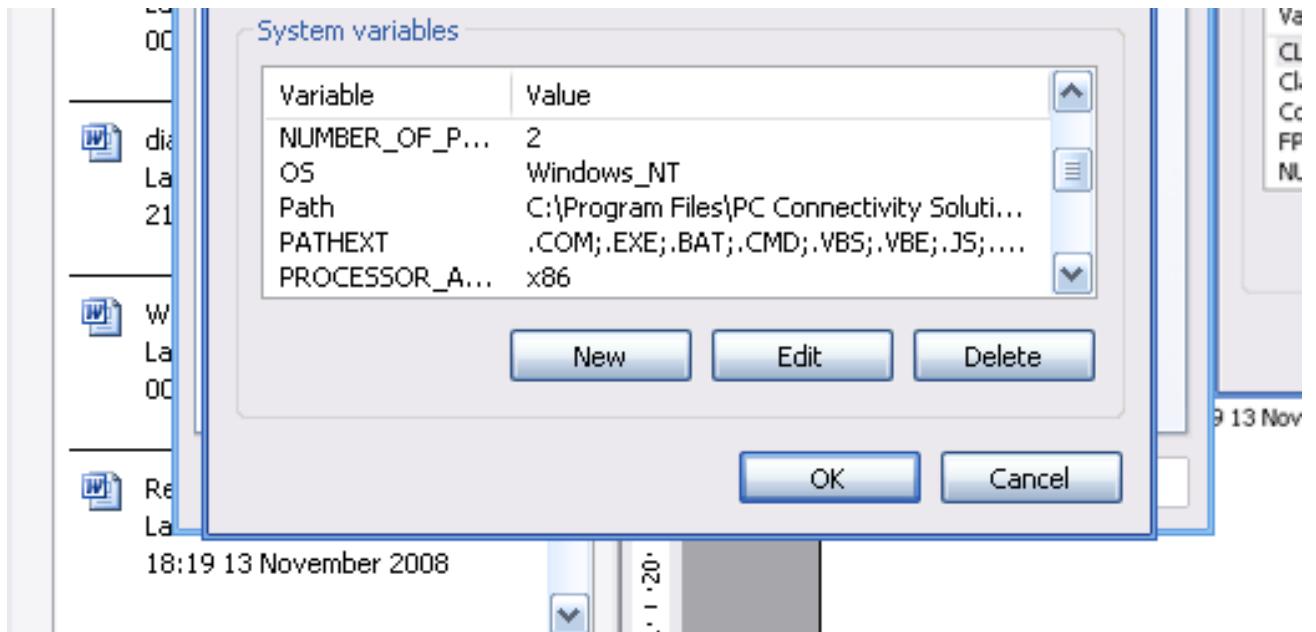
Therefore the line of code means:

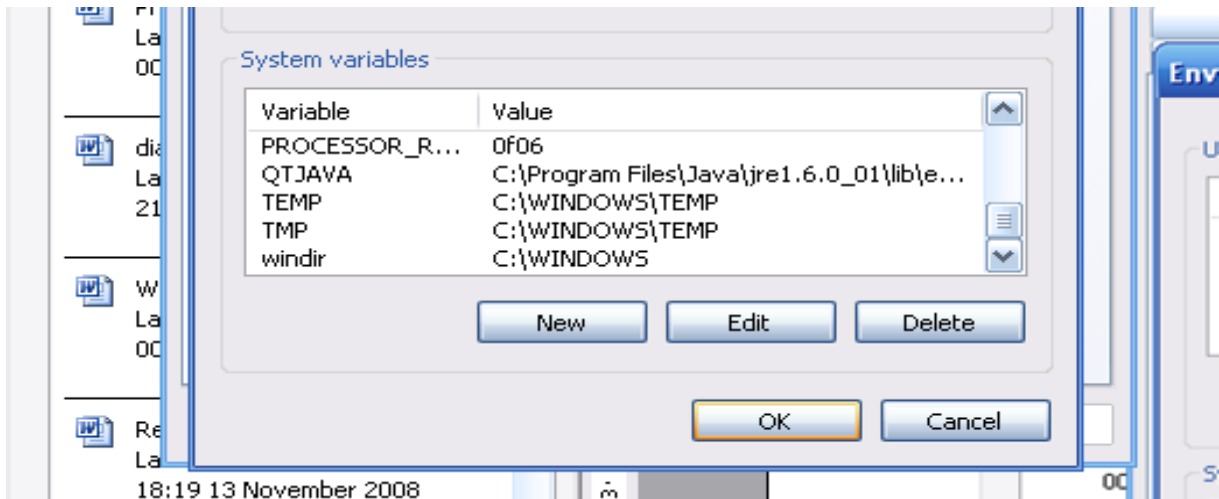
- JAVAC
 - call for a compile
- Djava.ext.dirs=\$TOMCAT_HOME/lib
 - means direct the file to an external directory which is c://Program Files/Apache Software Foundation/Tomcat 6.0/lib
- petservlet.java
 - is the file to compile

This will create petservlet.class in c://Program Files/Apache Software Foundation/Tomcat 6.0/lib

Here are complete screenshots to show the Environmental Variables and System Variables







Here is a screenshot of my current installation which I recently updated when reinstalling Windows XP on this pc. This time Tomcat is installed on C:\Tomcat6. Note the CLASSPATH in System variables C:\Tomcat6\lib\servlet-api.jar; This is needed to run Java servlets.

