Running Java with a Library File

One of the optional things you can do for the second assignment – just to make it easier to spot errors in your output – is use the difference() method from the StringUtils class, part of the Apache Project Commons package. The library is included in the resource pack which you can (and actually must) download to attempt the coursework. However, you need to know how to run your code with a library to make use of it. The library itself is a .jar file – a Java Archive – which is a convenient way of packaging up a (potentially large) number of Java class files. However, we need to take some steps to make sure it works.

Prepare AutoTest

First thing you need to do is uncomment the code in AutoTest.java which uses the library before you compile it.

Command Line

To run your code with the library from the command line you need to type

```
java -cp .;common-lang3.jar AutoTest.java
on Windows, or
java -cp .:common-lang3.jar AutoTest.java
```

on a Mac/Linux – the only difference between the two is that on a Mac you use a : and on Windows a ;

What is going on?

-cp specifies the class path – the places Java looks for code - . is the current directory, and the other part is obviously the name of the .jar file.

Netbeans and Eclipse

See the videos in the 'How To' sections on Blackboard.