

## Language Processors Coursework 2

**Organisation:** Do this work in pairs if you wish. You will hand work in as individuals but the handin procedure will allow you to say who you collaborated with. *Pairs* only – not threesomes!

**Handin:** The deadline and the electronic handin procedure are on WebCT. Obviously you should change file and directory permissions so that your work is not visible to others – remember plagiarism carries penalties.

### The work

You will extend the MiniJava implementation, including the typechecker. Copy the MiniJava implementation directory to where you want to work, using:

```
cp -R /soi/sw/courses/daveb/IN2009/minijava/chap5 .
```

This is available as a zip file on WebCT too. Files README in the various directories give a brief description of the structure of the implementation, and we studied the symbol table mechanism and typechecker in Session 5.

1. Add the operators / (divide), > (greater than), || (or), and ?: (shortcut if-else) to your implementation. They have the same syntax and meaning as they do in Java, and appropriate typechecks should be implemented for them (`op1?op2:op3` returns `op2` if `op1` is true, and returns `op3` if `op1` is false).
2. Add appropriate typechecking for the do-while statement you implemented in the first coursework (for those who did not handin the first coursework, I will publish some guidance on what needs to be added).