# Larva session

### Setting up environment

1. Import the Larva project in Eclipse
2. Import BankSystem and BadLogin projects

### Running Larva

Mainly, Larva requires 3 arguments: a larva script, an output directory and the directory of the diagram creator. Below is an example:

"C:\Users\University User\Desktop\Larva hands on session\examples\badlogin.lrv"

-o "C:\Users\University User\Desktop\projects\badlogin\src"

-g "C:\Program Files\Graphviz2.16\bin\dot.exe"

This generates the Java source code of the monitor.

**Exercise**

1. Generate the Java source code for the bad logins script.
2. Change the bad login project in Eclipse to an AOP project.
3. Run the bad login project “main.Main” and have a look at “output\_badlogin.txt” log file (in the source folder). If the log file does not appear you might need to run Eclipse with administrator privileges.

### Understanding DATEs

**Exercise**

1. Run the bank system (with the monitoring code) and check the monitor output
2. Create a monitor which reaches a bad state if more than three bad logins occur (no time bound)
3. Reset the counter if a new method “good login” is triggered.