

# Starting off the PAV'15 Class Project

Shyam. S

## 1 Setting up the project

The following steps correspond to setting up WALA in an Eclipse environment. Make sure that you have Java SDK and JRE as well as Eclipse installed in your computer before you perform these steps.

1. Extract the given tar archive.
2. Open Eclipse
3. Import all the projects in the extracted archive into eclipse by using **File** → **Import** → **General** → **Existing Projects into Workspace** and provide the path to the extracted archive.
4. Open **com.ibm.wala.core** → **dat** → **wala.properties.sample** and set the **java\_runtime\_dir** to point to your java runtime libraries (eg: /usr/lib/jvm/java-8-oracle/jre/lib).

To set up the test cases and to see if the WALA has been setup correctly, follow these steps:

1. Export the PAV15ProjectTests project in Eclipse:  
**right click PAV15ProjectTests** → **Export** → **Java** → **JAR** → **click Next** → **provide destination** → **click Finish**.
2. Set the arguments for PAV15Project:  
**right click PAV15Project** → **Run As** → **Run Configurations** → **Java Application** → **PAVPointerAnalysis** → **Arguments**. Under Program Arguments, provide the arguments in the following format:  
<path to jar> L<package name of main class>/<class name of main class> L<package name of class containing the method to be analysed>/<class name of that class> <method signature>  
  
eg:  
/home/user/PAV15ProjectTests.jar LTestCases/SampleTests LTestCases/SampleTests foo(I)V
3. Run the project and you should be able to see the Call Graph for the project and the CFG and IR of the given method.

Note: The projects **com.ibm.wala.core.tests**, **com.ibm.wala.ide** and **com.ibm.wala.ide.tests** might have errors in them. Ignore those as they will not affect the execution of PAV15Project.