# Simple Java IDE

The project is about building a simple java IDE which can compile and run java projects  
  
DESCRIPTION

The simple IDE would contain the elements like project explorer, editor, output window, compiler, jvm, build configuration, run configuration, console.

* Project explorer is a list representation of the directories and files in a project. It would contain files that are referred by the project and also all the source files.
* Editor is the area were a source file is edited and it will contain features like code collapsing.
* A source file can have states like saved and unsaved.
* Compiler would compile the source file to a class file and the user can choose a compiler and provide the libraries or the class path from build configuration.
* Output window would display all the compilation output like errors etc.
* JVM would run the compiled class file and will show the output to the console.
* Build configuration and run configuration will provide the user to configure settings like which compiler to choose, provide the libraries to run a project and to set any arguments.

Optional features implemented are:

* Code collapsing
* Syntax Highlighting

Special Files for project structure are:

* pathsetting.plain – This contains the java compiler path, if this file does not exist then the build config dialog box will be shown.
* Workspace.plain- This contains the workspace path
* Classpath.plain – this contains the path to jars required in the build or running of program.

Key Technologies used:

* The code in written in JDK 1.7
* UI is built on java swing
* The editor is a RSyntaxTextArea
* The project explorer is built on JTree
* The compilation and execution is done by creating a new process through java ProcessBuilder class

ScreenShot:

