Advance Topics In Software Engineering

```
If(everything_goes_fine)
```

System.out.println("Contribution to checkstyle project");

Ioannis Sermetziadis
Department Of Management Science and Technology
Athens University Of Economics and Business

What is checkstyle project?

- A development tool to help programmers write Java code that follows some coding standards.
- It can check many aspects of the source code, like duplication, class design, javadoc comments, etc.
- It is highly configurable by the user who gives a configuration (.xml) file including the checks he wants to make.

How can someone use it?

- As an Ant tool.
- As a command-line tool.
- As a plug-in, written by third-parties, to developing platforms.

What you just have to do is write a (.xml) configuration file, give an input (.java) file and you get an (.xml or .txt) with the checking results.

"Checkstyle" Details

- Mostly developed by Oliver Burn and a team of 4 more developers.
- At the moment 4.1 version has already been released.
- The project is in the mature stage.
- Consisted of 268 .java files

What is done till now...

It has been compiled.

Ran through command-line and as netbeans' plug-in.

Contact with the project's administrator.

My intended Contribution to the Project(1)

- Fix the RedundantImport check, so that duplicated imports can be detected and avoided. e.g. import java.io.*; import java.io.File.*;
- Extend the UnusedImports check, in order to also check massive imports whose classes are not used.
- If just one class of a .* import is used, suggest the import of the specific class of the package.

My intended Contribution to the Project(2)

Depending on the time needed-

Insert a new check indicating the level of code clearness, counting how many blank lines there are every 100 lines of code.

Add some boolean properties to the StrictDuplicateCode check concerning the inclusion to the check of javadocs or whitespace lines between methods.

Thank you for your attention

ANY QUESTIONS???