* Most changes made to the source code (including bug fixings and feature additions) were marked with the author’s email in the comment. (i.e., [xiao.qu@us.abb.com](mailto:xiao.qu@us.abb.com))
* The major additional features added to the tool include:

1. **Regression assertions** for more effective regression testing
2. **Method transformer** lets users delete pre-defined method calls built in the assembly or replace them with pre-defined alternative method calls. In order to accomplish this, a tool (packages\Mono.Cecil.0.9.5.3) is added and used in this project. Accordingly, the Post-Build script (i.e., “createzip.bat”) is modified.

This functionality is used when some particular method calls in the assembly may prevent the automation of test generation. For example, if the methods explored invoke a pop-up window (i.e., a messagebox) by calling MessageBox.Show(), the generation process may wait for manual intervention (such as close or cancel the messagebox) forever (until the time is out) in the background. This problem prevents Randoop from further exploring other methods in the project. As a result, a big proportion of methods cannot be reached by Randoop, which will be not covered by the generated test suites.

To overcome this problem, the user can either specify to delete all MessageBox.Show calls in the assembly or to transform the MessageBox.Show to Console.Writeline, which will redirect the message to console without waiting for any manual intervention. [More details can be found in randoop-VS-plugin-2010\Randoop\Randoop.NET VS add-in Manual.pdf]

1. **Richer debug information collection**