

# Homework: Refactoring

This document defines the homework assignments from the ["High Quality Code" Course @ Software University](#). Please submit as homework a single **zip** / **rar** / **7z** archive holding the solutions (source code) of all below described problems.

## Problem 1. Clean the Smelly Code

Use the Visual Studio solution "**Matrica.sln**". You are given the file "**Rotating-Walkin-in-Matrix.docx**" explaining the task of the program. Improve its internal quality. You might follow the following steps:

1. Make some initial refactoring like:
  - Reformat the code.
  - Rename the badly named variables.
2. Make the code testable.
  - Think how to test console-based input / output.
3. **Write unit tests.** Fix any bugs found while testing.
4. Refactor the code following the guidelines from this lecture. Do it step by step. Run the unit tests after each major change.