



## Task 1.

- » Improve test ability to be able extend the application:
  - First refactoring is critical, we don't have tests yet
  - Extract only necessary code to internal static methods
  - Later we are able to transform them to instance methods
  - Best practice is to avoid "public static" (e.g. SingleTon, Service locator)



## Task 1.

- Writing unit tests:
  - We are going to use "Test first" strategy
  - Allow access internal members by adding InternalsVisibleTo("Tests")
  - Add new test project
  - Use MSTests attributes to decorate the test methods
  - Use Assert to validate the output
  - Validate "Test Coverage" (e.g. using JetBrains dotCover)



## Task 2.

- » Add new command for multiplication:
  - Add new failing test First
  - Add the missing method implementation
  - Add the command usage to the application



## Task 3.

- » Change the code so it can be used with Windows phone application User interface
  - Extract all calls to "Console" class
  - Define user interaction Interface
  - Create Fake User interface to simulate user interaction (e.g. Moq library)
  - Write missing unit tests

