**Homework: Exception Handling**

**Problem 1. Square root**

* Write a program that reads an integer number and calculates and prints its square root.
  + If the number is invalid or negative, print Invalid number.
  + In all cases finally print Good bye.
* Use try-catch-finally block.

**Problem 2. Enter numbers**

* Write a method ReadNumber(int start, int end) that enters an integer number in a given range [start…end].
  + If an invalid number or non-number text is entered, the method should throw an exception.
* Using this method write a program that enters 10 numbers: a1, a2, … a10, such that 1 < a1 < … < a10 < 100

**Problem 3. Read file contents**

* Write a program that enters file name along with its full file path (e.g. C:\WINDOWS\win.ini), reads its contents and prints it on the console.
* Find in MSDN how to use System.IO.File.ReadAllText(…).
* Be sure to catch all possible exceptions and print user-friendly error messages.

**Problem 4. Download file**

* Write a program that downloads a file from Internet (e.g. [Ninja image](http://telerikacademy.com/Content/Images/news-img01.png)) and stores it the current directory.
* Find in Google how to download files in C#.
* Be sure to catch all exceptions and to free any used resources in the finally block.