

Kursträff 8: Pair programming exercises

Use the course literature and the slides from today's lecture to discuss and answer the questions below.

1. Discuss the following terms and keywords -- what do they mean and how are they used?
 - Exception
 - throw
 - catch
 - finally
 - using-block
 - IDisposable
2. Give an example of a try/catch-block that uses `int.Parse` to convert a string to int and which uses `Console.WriteLine` to write the exception-message to the console if an exception is thrown
3. C# has a class called `StringReader`, which can be used to read from strings as if they were streams.
 - Create a new console application
 - In the `Main()`-method:
 - Create a new `StringReader` object from a verbatim string containing a few lines of text
 - Use a using block
 - Read the lines of the `StringReader` one at a time and output them to the console
4. Download and unzip the example-project `BookSerializer.zip` from Blackboard
 - Open the solution in VisualStudio
 - Go through the file structure together and discuss what the various files and classes in the project do
 - Look at the files `Program.cs`, `Interfaces/ISerializeable.cs`, and `Models/SerializeableList.cs` and discuss what they do and how they are used
 - As you may have noticed, the application doesn't function very well. There are several sections marked "TODO" in the code, in:
 - `Program.cs`
 - Write exceptions are unhandled
 - `Data/SerializedReaderWriter.cs`
 - Both the Read and Write methods are missing the code to load and save data
 - `Models/Book.cs`
 - The implementation of `Deserialize()` needs to be completed
 - `Models/SerializeableList.cs`
 - Exceptions aren't handled in the `Deserialize()`-method
 - Discuss and fix the problems above