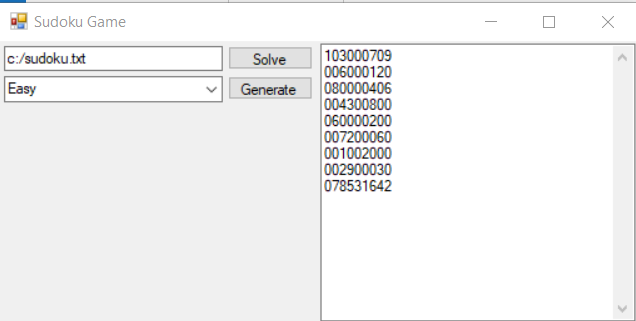
**Sudoku Solver and Generator**

* Solution implements all four Parts of assignment:
  + Reading Sudoku
    - Windows Form
  + Solving Sudoku, Classifying difficulty
    - **SudokuSolver.cs** implements this part.
  + Sudoku generator with desired difficulty level
    - **SudokuGenerator.cs** and **DifficultyGenerator.cs** implement this part
  + UI for managing above features
* Solution has following three projects
  + **SudokuEngine**
    - Consist of all business or calculation logic
  + **SudokuGame**
    - UI layer for solution
    - **Set it as startup project**
  + **TestProject**
    - Test cases for SudokuEngine
* Please consider following points while running **SudokuGame.exe**:

1. This a very basic WinForms application
   1. 
2. Sudoku Solver
   1. 
      1. Here in the textbox provide the path of input file
      2. **Code is adjusted for treating 0 as empty space in Sudoku board**
         1. Example:

003406700

400789003

009020400

210365097

065090210

890214065

001040900

600978001

008501600

* + 1. Click on Solve will read and solve the problem from input file and will display solved board in adjacent multi-line textbox

1. Sudoku Generator
   1. 
      1. Here in the Combo Box you can set the difficulty level of Sudoku
         1. Difficulty levels are: Easy, Medium, Hard, Samurai
      2. Click will generate the unsolved Sudoku board in the adjacent multi-line textbox.