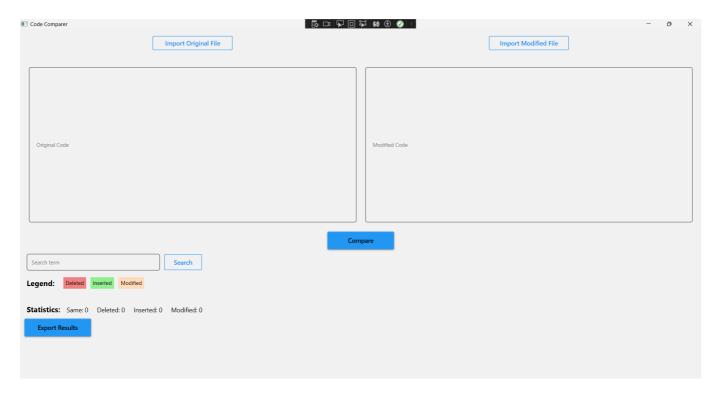
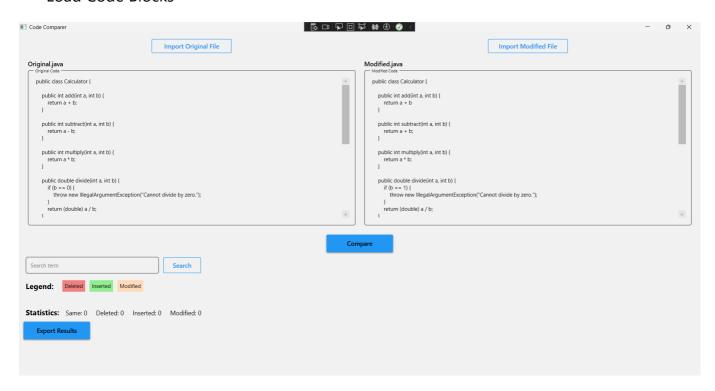
CodeComparer – Code Difference Viewer

CodeComparer is a WPF desktop application for visually comparing differences between two blocks of source code. It highlights changes, shows statistics, supports file import/export, and allows keyword search within code.



→ Features

♦ Load Code Blocks



You can manually paste code into the input fields or import code from files (.cs, .txt, .java, .py, etc.).

The name of the imported file is displayed above each code block for clarity.

♦ Code Comparison

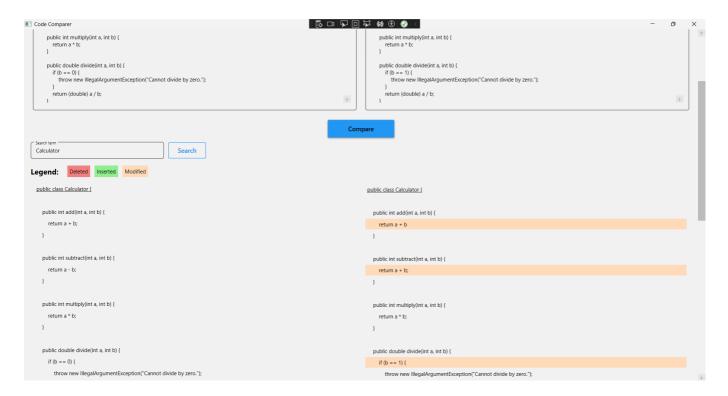


- The app compares the two blocks line by line and aligns them side-by-side.
- It detects and displays:
 - o Inserted lines (green),
 - **Deleted lines** (red),
 - Modified lines (orange),
 - o and unchanged lines.

Visual Highlighting

• Differences are color-coded:

- Deleted lines LightCoral
- Inserted lines LightGreen
- Modified lines PeachPuff
- You can quickly spot where changes occurred.
- ♦ Search



- You can search for any term or keyword.
- Matching lines are underlined to improve visibility in large files.

Statistics Summary



- The app shows the number of:
 - Same lines
 - o Inserted lines
 - Deleted lines
 - Modified lines

♦ Export Results

- After comparing, you can **export the comparison results** to a .txt file.
- The exported file contains:
 - Summary statistics
 - A full list of differences with labels

X Technologies Used

- WPF (Windows Presentation Foundation)
- MVVM architecture
- **DiffPlex** for code comparison logic
- MaterialDesignInXAML for modern UI components