**Project 1: Programming Assignment on Program Differencing**

In this project, you are required to write a program to compare two versions of a Java program.

1. The input of your tool is two versions of a Java program.
2. The output includes:
   1. The list of all the lines (with the line numbers) that are deleted,
   2. The list of all the lines (with the line numbers) that are newly inserted,
   3. The list of all the lines (with the line numbers) that are modified.
3. Bonus points:
   1. 20 points for GUI
   2. 10 points for detecting moving of lines.

Note that your tool must be robust to the whitespaces. You can use any programming language and IDE.

You can work in a group of 2 students or by individuals. Submit your code on BB and a short write-up to explain your program. Please explain how to set up and run your program.