The aim of this exercise is to parse a CSV file, perform certain operations, and write it back into a new file. The sample CSV file shall be attached to this exercise.

The requirements are as follows:

1. Input and output file paths and names should be passed as script parameters rather then hard coded in the code.

Example: <script\_name>.pl -i <Orignal CSV file> -o <Output CSV file>

1. The output CSV file must contain the column headers which are missing from the original file, as well as the original data.
2. The data in the original CSV must be parsed and stored inside a hash.
3. The sum of the column 3 values must be printed out.
4. The count of negative and positive column values should also display as well as the percentage of the total number of values.

Example: Negative: 10 - 50%, Positive: 10 - 50%

The code must be well documented and structured. Errors should be handled well with appropriate error messages as well as returning a successful/error code. The content of the error messages should be clear, give a clear indication what’s wrong, and point to where the error happened.

A clear test plan should also be presented, either using unit tests and running them through a test framework or a list of test scenarios executed manually one after the other.

Screenshots of your executions/testing scenarios should be included with the code as well as the generated output file.