File I/O Assignment

Java based on the java day three contents covered: [Implementation of File handling, Stream, Reader/Writer, buffers, channel, directory operations]

Problem Statement: Below are the addition and modification need to be done for the previous day assignment of day 4.

1. To transfer the History data from collection to file and clear the collection. Each time the data added to the file should keep on adding/appending the data should not over write. The history data added once should not be added again.
2. To transfer the History data from file to collection using line and buffer reading technique.
3. Display the history data from the file-storage for a) a given week of the month b) for a date range.
4. Display summary of operators for a) a given week of the month b) for a date range.
5. Read Expression (arithmetic, scientific, trigonometric, date, conversion) from a given file (file contain more than 10000 expression.) and evaluate the expression and store it in another file along with the result. (Use buffers, collections, stream).
6. Handle file exceptions (file not found, file open error).
7. Whenever the calculator is launched it should have the history of the previous week.(seven days back to the current date.
8. To take back up of the history data-folder.

Solution:

Step 1: Create new java project 4 and copy the src folder of the previous project.

Step 2: Since in this assignment we are doing IO operation on history data no new class are created only the methods to be added to do above IO operation.

Step 3: Modify the Evaluate abstract class as demonstrate to perform all the above functionalities.

Step 4: Create main method and check the program.