Thread assignment

Java based on the java day five contents covered: [Implementation of File Threads, parallel processing, synchronization, wait, notify]

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

Modify the assignment of reading 10000 expression evaluation from file and implement parallel processing as follows:

1. Create multiple threads to read a block of expression stored in file and evaluate the expression parallel.
2. As the expressions are evaluated display the expression and result along with the thread name.
3. As the expression are evaluated store them in the History along with the result.
4. Use proper synchronization of method and data
5. Use thread pause if necessary.[sleep, wait, notify]

Solution:

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

Step 2: Create a FileRead Class which has synchronized methods called by thread to do file read.

Step 3: Create a ExpressionThread class which is a thread to do parallel processing.

Step 4: Modify the factory method to call any expression [ Airthmetic, date, conversion]

Step 5: Create main method to execute the thread/parallel processing.

(as demonstrated/attachment.)