Please announce that the lab midterm will be held on 2nd of March, Monday. Syllabus- everything covered. The midterm will be code based.

**Lab Tasks [Part -1]:** For the following tasks show them **only simulation**. Please make sure every student understands. After explaining give them problems to solve in class.

1. Show them infix to postfix conversion using stack. Please choose a mathematical expression complex enough. [Must contain nested brackets, operands with different precedence].
2. Show them postfix to infix conversion using stack. Please choose a mathematical expression complex enough. [Must contain nested brackets, operands with different precedence].
3. Show them how to evaluate a postfix expression using stack.

**Lab Tasks [Part – 2]:** Explain with codes

1. Read from a file.
2. Write to a file.

<https://www.geeksforgeeks.org/file-handling-java-using-filewriter-filereader/>

1. Introduction of a new data structure Hashtable in java. Link: <https://www.geeksforgeeks.org/hashtable-in-java/>

**Lab Tasks [Part – 3]:** Solve their problems if they have. As midterm in approaching students are expected to come with problems.