**IMPORTANT ANNOUNCEMENT**

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

**Lab Tasks [Part -1]:** **Stack Simulation**.

1. Infix to postfix conversion using stack.

x ^ y / ( 5 \* z ) + 2

A + ( B \* C - ( D / E ^ F ) \* G ) \* H

K + L - M \* N + ( O ^ P ) \* W / U / V \* T + Q

1. Postfix to infix conversion using stack.

a b c - + d e – f g – h + / \*

A B C / - A K / L - \*

2 4 5 5 3 - 5 4 ^ ^ \* / +

1. Evaluate a postfix expression using stack.

**Lab Tasks [Part – 2]:** FileReader and FileWriter

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 any problems you have from the previous labs. As midterm in approaching students are expected to come with problems.