Experiment #04

Title: **Laplace Transform - Evaluation and Application**

Typically an e-record has the following sections:

Aim: The aim of the experiment.

Mathematical Background: A brief note about mathematics involved in the problem at hand. It involves Mathematical Model and the methods used in the experiment.

Matlab code: The Matlab code used to get the desired output.

Output and Conclusion: The output obtained using Matlab and concluding remarks in terms of application in the relevant Engineering branch.

Along with the e-record submit your responses to the following questions.

1. Explain the uses of `fill` and `cylinder` with examples (one for each).

2. Write a program to fill the region between two curves $f(x)$ and $g(x)$. Verify your code with a sample output in which the curves are intersecting each other atleast once.

- The lab record with the solutions to the excercise problems must be submitted in **pdf format only**.
- Write virtuously and don't make it an oversized document (preferably < 8 pages with file size < 1 MB).
- Copying others' work can be injurious to your grades.