

## DAA Exp - 1

This experiment helped me understand the concepts of functions better, which starts from the knowledge of knowing a solution. To execute this experiment, I first read through the online library and understood the various commands used for the mathematical functions like log, ln, exponent and power. Then I made a C program that utilized a simple for loop to iterate 101 times (from 0 to 100) for all functions except  $n!$ , which I iterated 20 times (0-19) and printed the output of all functions in a tabular manner.

This was the easy part for me, but taking the output of the program into a text file was a whole new concept for me, which utilized the command `./a.out > res.txt`. I then proceeded to copy the text contents of the text file into an MS Excel file.

Then I generated two line graphs with markers - the first one containing the outputs of all the functions taking 5 inputs & input for each, and the second one containing all but one function  $n!$ , which took 10 inputs.

In this manner, I completed the experiment and satisfied my concepts on functions.