

# NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

Department of Computer Science and Engineering

**CS6103D SOFTWARE SYSTEMS LAB - MONSOON 2022**

## Perl practice questions

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1. Write a Perl program that reads a string from STDIN and returns ten random permutations of this string. [Objective is to learn the use of < STDIN >, String functions]
2. Write a Perl program that take strings from STDIN and sort them in alphabetical order and save them to output.txt (use sort () function). [Objective is to learn file operations, String operations]
3. Write a Perl program that calculates the factorial of a number (try two ways: both for loop and recursive routine). [Objective is to learn scalar variables, conditional statements, loops, recursion]
4. Write a perl program to remove duplicates from a list of numbers.
5. For the input string 'RLDVAEWPS GTRTA IEIAI GTVIGTG LTKSSLG', write a perl program to remove whitespace and replace characters 'LG' with 'AK'. [Objective is to learn chomp functions, regular expressions]
6. Write a perl script to convert the date values (DD/MM/YYYY format) in a file into MM/DD/YYYY format.
7. Create a socket connection between the server and multiple clients using TCP and UDP in perl.

### Output expected:

- (a) Server and client running in different terminals
- (b) Start the server and keep the defined port open
- (c) Connect the client to the server using the port number
- (d) After getting connected, the Server sends the welcome message to the Client.
- (e) Error handling to be specified in appropriate places