

Course Code	:	BCSL-056
Course Title	:	Network Programming and Administration Lab
Assignment Number	:	BCA(V)/L-056/Assignment/2024-25
Maximum Marks	:	50
Weightage	:	25%
Last date of Submission	:	31stOctober,2024(For July, Session)
		30thApril, 2025 (For January, Session)

Note: This assignment has two questions. Answer all the questions. These questions carry 40 marks. Rest 10 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Make necessary assumptions.

Q1

(a): Write and execute a TCP client and a server program in C-language to perform the following tasks:

(14 Marks)

The TCP client program sends two strings to the TCP server program to find length of these two strings and return the sum of lengths of these two strings. Also the TCP server program sends the concatenated strings to the client.

(b) Run the following Linux commands on your machine and show the output:

(6 Marks)

- cat
- sort
- ping
- more
- df-h
- tail - f

Q2.

(a) Configure and test the Telnet server in Linux.

(6 Marks)

(b) Configure the DHCP server on the Linux operating system. Write all the steps involved in configuration. Sort each column of the table and show the result.

(14 Marks)