



# Network Programming

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# Lab 7

# Assignment

1. Create a folder named **CSE306** in your home folder.
2. Create a symbolic link of **CSE306** to **Desktop**
3. Use **ls** command to list all files and folder in a specified path.
4. Create a file named **Grade.txt** (using **nano** command) in **CSE306** folder with the following content:

Hai	6	5
Minh	7	9
Huynh	10	8
Ngoc	7	9
Ngan	4	8
5. Rename **Grate.txt** to **StudentList.txt**
6. Use **sort** command to sort the list by name column in **descending** order
7. Write a script to calculate the sum of two numbers entered by a user. (two ways)

# Assignment

8. Write a script that allows a user add a new student with grade to the list.
9. Write a script for printing all files and folders in the present working directory.
10. Write a script for printing all files and folders in a specified directory and write to a log file.
11. Write a script for printing all executable files in specified directory.
12. Write a script to search a user present in your system. (use **grep** command) (\*)
13. Write a script to check if the file “file\_path” exists and is writable.

# Assignment

14. Write a script that prompts the user for a path of a file or directory and return if it is a regular file, a directory, or another type of file. Also perform a **ls** command against the file or directory with the long listing option
15. Modify the previous script to that it accepts the file or directory name as an argument instead of prompting the user to enter it.
16. Modify the previous script to accept an unlimited number of files and directories as arguments. (\*)
17. Compress all scripts using tar command.

# Assignment

18. Write a script that accept a string from a user and do the corresponding tasks:

- a) Currently logged users (whoami command)
- b) Home directory (Find the variable to show the folder in TOP 25 Environment variables)
- c) OS name & version (cat /etc/os-release or hostnamectl)
- d) Current working directory
- e) Install php
- f) Hard disk information (df -H)
- g) CPU information (lscpu or cat /proc/cpuinfo)
- h) Currently running process (ps -aux)