Lab 8

```
trantuanthinh@ScorpioKid:~$ pwd
   /home/trantuanthinh
   trantuanthinh@ScorpioKid:~$ mkdir CSE306
   trantuanthinh@ScorpioKid:~$ ls
   CSE306
   trantuanthinh@ScorpioKid:~$
1.
2.
  trantuanthinh@ScorpioKid:~$ ln -s ~/CSE306 ~/Desktop
  trantuanthinh@ScorpioKid:~$ ls
           Desktop
   CSE306
   trantuanthinh@ScorpioKid:~$ cd Desktop/
   trantuanthinh@ScorpioKid:~/Desktop$ ls
   CSE306
   trantuanthinh@ScorpioKid:~/Desktop$
3.
   trantuanthinh@ScorpioKid:~/CSE306$ nano Grade.txt
   trantuanthinh@ScorpioKid: ~/CSE306$glsnming/Lab8/Lab%208
   Grade.txt
   trantuanthinh@ScorpioKid:~/CSE306$ cat Grade.txt
   Hai
         =7 Network9programming
   Minh
   Huynh
           10
   Ngoc
           7
   Ngan
                    8
           4
  trantuanthinh@ScorpioKid:~/CSE306$
  trantuanthinh@ScorpioKid:~/CSE306$ mv Grade.txt StudentList.txt
  trantuanthinh@ScorpioKid:~/CSE306$ ls
  StudentList.txt
  trantuanthinh@ScorpioKid:~/CSE306$
5.
```

```
trantuanthinh@ScorpioKid:~/CSE306$ sort -k1,1r StudentList.txt
Ngoc 7 1 F9 | D:/CSE306-NetworkProgramming/Lab8/Lab8/208.pdf
   Ngan
          7 Gmail 😝 AAO.EIU ≡ Moodle EIU 🌀 Workspace 🔍 DevDocs API Docum... 🔼 Googl
   Minh
   Huvnh
          10
   Hai
         ≡6 Network5programming
6.
    GNU nano 7.2
   echo "Enter humt 1:Draw Design
   read num1
   echo "Enter num 2:
   read num2<sub>ormat Painter</sub>
   sum=$((num1 + num2))
   echo "Sum: $sum"
7.
    GIVO HAHO 1.2
   file="Studentlist.Txt" Design Layout
   echo "Enter name: "Times New Roman > 14 > A^ A
   read name
   echo "Enter grade 1: "
   read grade1
   echo "Enter grade 2:"
   read grade2
   echo "Successfully"
   cat "$file"
    GIVO HAHO 7.2
   echo "Current Directory: 74
   ls -la
9.
```

```
GNU nano 7.2
   log_file="listing!log"m/
   echo "Enter directory path: " Workspa
   read dir_path
   if [[ -d "$dir_path" ]]; then
          ls -la "$dir_path" >> "$log_file"
           echo "Done!"
   else
         "touch" $log_file"
           ls -la "$dir_path" >> "$log_file"
   fi
10.
  echo "Enter directory path:4d#212-54f0-8
  read dir_path
  find "$dir_path" -type f -executable
11.
  read -p "Enter the username to search: "username
  if grep -q "^${username}:" /etc/passwd; then
           echo "Exist"
           echo "Not Exist"
  fi
12.
  read -po"Enter the file path: Lay file pathes
   if [ -w "$file_path"m]s; Nethenan v 14 v A A A .
           echo "Exist" B I U \checkmark \Rightarrow \Rightarrow x x^2 \nearrow
   else
         echo "Not Exist"
   fi
```

```
read -p "Enter the path:300-path
if [ -f "$path" ]; then
         echo "Regular File"
elif [=d "$path"brdgrthenig
         echo "Directory"
else
         echo "Another type"
fi
ls -ls "$path"
   [ $# -eq 0 ];then
        echo "Usage: $0"
        exitr/1programming
fi
path="$1"
if [ -f "$path" ];then
        echo "Regular File"
elif [ -d "$path" ];then
        echo "Directory"
else
        echo "Another Type"
fi
ls -l "$path"
```

```
"$#" -eq 0 ]; then
               echo "Usage: $0"
               exit 1
   fi
   for path in "$@"; do
               echo "Check: $path"
               if [ -f "$path" ]; then 9. Write a script f
                           echo "$path: -> Regular Fi
               elif [ -d "$path" ];then
                           echo "$path: -> Directory"
               else
                           echo "$path: -> Another Type"
               fi
               ls -ls "$path"
   done
   trantuanthinh@ScorpioKid:~/CSE306$ ls
StudentList.txt checkFileAndList.sh grep.sh
                                  grep.sh printAll.sh sum.sh list_executables.sh scripts write_log_files.sh
   addStudent.sh checkPath.sh
                checkPaths.sh
                                                    search_user.sh
                                  listing.log
   trantuanthinh@ScorpioKid:~/CSE306$ mv *.sh scripts/trantuanthinh@ScorpioKid:~/CSE306$ ls
   StudentList.txt listing.log scripts
17. trantuanthinh@ScorpioKid:~/CSE306$
   trantuanthinh@ScorpioKid:~/CSE306$ tar -czvf zipScripts.tar.gz scripts/
   scripts/
   scripts/list_executables.sh
   scripts/checkPaths.sh
   scripts/printAll.sh
   scripts/checkFile.sh
   scripts/checkPath.sh
   scripts/search_user.sh
   scripts/write_log_files.sh
   scripts/grep.sh
   scripts/sum.sh
   scripts/addStudent.sh
   scripts/checkFileAndList.sh
   trantuanthinh@ScorpioKid:~/CSE306$ ls
   StudentList.txt listing.log scripts
                                            zipScripts.tar.gz
   trantuanthinh@ScorpioKid:~/CSE306$
```

```
echo "Enter your a-h task: "
    echo "Options:
   a/ Current logged users
b/ Home directory (Find the varirable to show the folder in TOP 25 Environment variables)
c/ OS name & version
   d/ Current working directory
   e/ Install php
   f/ Hard disk info
g/ CPU info
h/ Currently running process"
    read input
    case "$input" in
            a)
                     echo "----> Current User:"
                     whoami
            b)
                     echo "----> Home directory of current user:"
                     echo "$Home"
            c)
                     echo "----> Operating System:"
                     cat /etc/os-release
            d)
                     echo "----> Current working directory:"
                    pwd
            e)
                     echo "----> Install PHP:"
                     sudo apt-get install -y php
            f)
                     echo "----> Hard disk Info:"
18.
                   g)
                                 echo "CPU Info:"
                                 lscpu
                   h)
                                 echo "Currently running processes:"
                                 ps -aux
     esac
```