Lab 4

Question 1

Question 2

```
mahima-rana@cis106:~/lab4files$ cd /usr/share/
mahima-rana@cis106:/usr/share$ ls ~/lab4files/
countries.json   document.docx   helloWorld.c   sample.xls   Ubuntu.pdf
csvfile.csv      globe.avi       Linux.pdf      Tux.png      website.html
mahima-rana@cis106:/usr/share$ cd ~/lab4files/
mahima-rana@cis106:~/lab4files$ ls -lh
total 6.5M
-rw-rw-r-- 1 mahima-rana mahima-rana  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 mahima-rana mahima-rana 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 mahima-rana mahima-rana 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 mahima-rana mahima-rana 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 mahima-rana mahima-rana   76 Feb 22  2022 helloWorld.c
-rw-rw-r-- 1 mahima-rana mahima-rana 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 mahima-rana mahima-rana 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 mahima-rana mahima-rana  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 mahima-rana mahima-rana 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 mahima-rana mahima-rana 135K Feb 22  2022 website.html
mahima-rana@cis106:~/lab4files$ ls -lhS
total 6.5M
-rw-rw-r-- 1 mahima-rana mahima-rana 2.5M Feb 22  2022 Linux.pdf
-rw-rw-r-- 1 mahima-rana mahima-rana 2.1M Feb 22  2022 Ubuntu.pdf
-rw-rw-r-- 1 mahima-rana mahima-rana 747K Feb 22  2022 document.docx
-rw-rw-r-- 1 mahima-rana mahima-rana 726K Feb 22  2022 globe.avi
-rw-rw-r-- 1 mahima-rana mahima-rana 278K Feb 22  2022 csvfile.csv
-rw-rw-r-- 1 mahima-rana mahima-rana 135K Feb 22  2022 website.html
-rw-rw-r-- 1 mahima-rana mahima-rana  42K Feb 22  2022 Tux.png
-rw-rw-r-- 1 mahima-rana mahima-rana  20K Feb 22  2022 countries.json
-rw-rw-r-- 1 mahima-rana mahima-rana 8.5K Feb 22  2022 sample.xls
-rw-rw-r-- 1 mahima-rana mahima-rana   76 Feb 22  2022 helloWorld.c
mahima-rana@cis106:~/lab4files$ ls -lSh --human-readable --inode --no-group lab4files
ls: cannot access 'lab4files': No such file or directory
mahima-rana@cis106:~/lab4files$ ls
countries.json   document.docx   helloWorld.c   sample.xls   Ubuntu.pdf
csvfile.csv      globe.avi       Linux.pdf      Tux.png      website.html
mahima-rana@cis106:~/lab4files$ ls -lxr
```

Question 3

```
mahima-rana@cis106:~/scripts$ bash lab4_script.og.sh
The current user is mahima-rana. It's home directory is /home/mahima-rana
The current directory is:
/home/mahima-rana/Downloads
The current directory is:
/home/mahima-rana/cis106

All files (including hidden files) in  /
bin, bin.usr-is-merged, boot, cdrom, dev, etc, home, lib, lib64, lib.usr-is-merged, lo
st+found, media, mnt,
opt, proc, root, run, sbin, sbin.usr-is-merged, snap, srv, swap.img, sys, tmp, usr, va
r

All files (including hidden files) in  /home/mahima-rana
.bash_history, .bash_logout, .bashrc, .cache, cis106, clare, .config, Desktop, Documen
ts, .dotnet,
Downloads, error_librewolfinstaller.log, 'git comands.txt', .gitconfig, .gnupg, lab4fi
les, .lesshst,
.librewolf, .local, Music, Pictures, .pki, .profile, Public, script, scripts, snap, .s
sh,
.sudo_as_admin_successful, Templates, .vboxclient-clipboard-tty2-control.pid,
.vboxclient-clipboard-tty2-service.pid, .vboxclient-draganddrop-tty2-control.pid,
.vboxclient-draganddrop-tty2-service.pid, .vboxclient-hostversion-tty2-control.pid,
.vboxclient-seamless-tty2-control.pid, .vboxclient-seamless-tty2-service.pid,
.vboxclient-vmsvga-session-tty2-control.pid, .vboxclient-vmsvga-session-tty2-service.p
id, Videos, .viminfo,
.vscode, .wget-hsts

All files (including hidden files) in  /home/mahima-rana/Downloads
games

All files (including hidden files) in  /home/mahima-rana/cis106
cheatsheets, .git, labs, notes, script, weekreports
mahima-rana@cis106:~/scripts$
```

```bash
#!/bin/bash
down="$HOME/Downloads"
cis="$HOME/cis106"
msg1="The current directory is:"
msg2="\nAll files (including hidden files) in "

echo "The current user is $USER. It's home directory is $HOME"
cd $down
echo $msg1
pwd
cd $cis
echo $msg1
pwd

echo -e "$msg2 /"
ls -mA  --color=auto /

echo -e "$msg2 $HOME"
ls -mA  --color=auto $HOME

echo -e "$msg2 $down"
ls -mA  --color=auto $down

echo -e "$msg2 $cis"
ls -mA  --color=auto $cis
```

Question 4 (Challenge question)

Script Source Code

```
User-defined variable:
Changing to: /mahima-rana/pictures
Changing to:/mahima-rana/video
Current PWD:/mahima-rana/video
Previous PWD: /mahima-rana/pictures

Long list of /mahima-rana/cis106
ls: cannot access '/mahima-rana/cis106': No such file or directo
ry
mahima-rana@cis106:~/cis106/script$
```

```bash
1  #!/bun/bash
2  echo "challenge question"
3  echo -e"\nList of environment variable:"
4  env
5
6  USER_NAME=$(MAHIMA)
7  PWD_VAR=$(pwd)
8  PREV_PWD="$home/mahima-rana/pictures"
9  NEW_PWD="$home/mahima-rana/video"
10
11 echo -e "\nUser-defined variable:"
12 echo "Changing to: $PREV_PWD"
13 echo "Changing to:$NEW_PWD"
14 echo "Current PWD:$NEW_PWD"
15 echo "Previous PWD: $PREV_PWD"
16
17 TARGET_DIR="$home/mahima-rana/cis106"
```