

Exam by Ari Zaravelis

Problem 1:

Write Bash Commands to achieve the following

1) You are in the directory ~/Documents. Change to the directory ~/Documents/CMPT353/Test/ using RELATIVE path.

```
cd CMPT353
```

```
cd Test
```

2) Alternatively, how would you do the same thing using ABSOLUTE path?

```
cd ~/Documents/CMPT353/Test/
```

3) Now create an empty file called aragon.

```
touch aragon
```

4) You need to move the file ~/Downloads/myfile to ~/Documents/myfile2

```
mv ~/Downloads/myfile ~/Documents/myfile2
```

5) Give the file myfile read and write permissions for owner, read permissions for everyone else

```
chmod 644 myfile
```

6) Give the file myfile read, write, execute permissions for owner and the group, read only for others

```
chmod 774 myfile
```

7) Give the file myfile read permission for owner, and no permissions to anyone else

```
chmod 400 myfile
```

8) How would you put process information (pid, etc.) about a process called neomutt into a file called

logfile?

```
ps -ef | grep neomutt >> logfile
```

9) Display all occurrences of Gollum in the file LOTR

```
grep Gollum LOTR
```

10) Display information about file permissions, only for files called xwing in the current directory.

```
ls -l xwing
```

Problem 2:

What are the VIM Commands / Shortcuts to achieve the following?

1) Replace all occurrences of WormTongue with Traitor

```
:%s/WormTongue/Traitor/g
```

2) Find the next occurrence, going forward, for the string Gimli

```
gg/Gimli
```

3) Move forward to the next paragraph

```
{
```

4) Go 10 lines below the current line

```
10G
```

5) Repeat the previous command, whatever it was

n

6) Replace the current character with the string ILoveMiddleEarth
sILoveMiddleEarth

7) Replace the current character with the character x
rx

8) Delete 8 lines including the current line
8dd

9) Copy the current word
yw

10) Paste whatever was copied
p

Problem 3:

3a.

```
#!/bin/bash
```

```
if [ $((($2)) -lt 16 ]
```

```
then
```

```
    echo "$1 you cannot drive, $3 authorities have been informed."
```

```
elif [ $((($2)) -ge 16 ] && [ $((($2)) -le 90 ]
```

```
then
```

```
    echo "$1 you can drive! Enjoy!"
```

```
else
```

```
    echo "$1 you can drive, but should you?"
```

```
fi
```

3b.

```
#!/bin/bash
```

```
echo "Enter the name of a process:"
```

```
read process
```

```
ps -ef | grep $process
```