OST LAB

LAB 2 ASSIGNMENT SUBMISSION

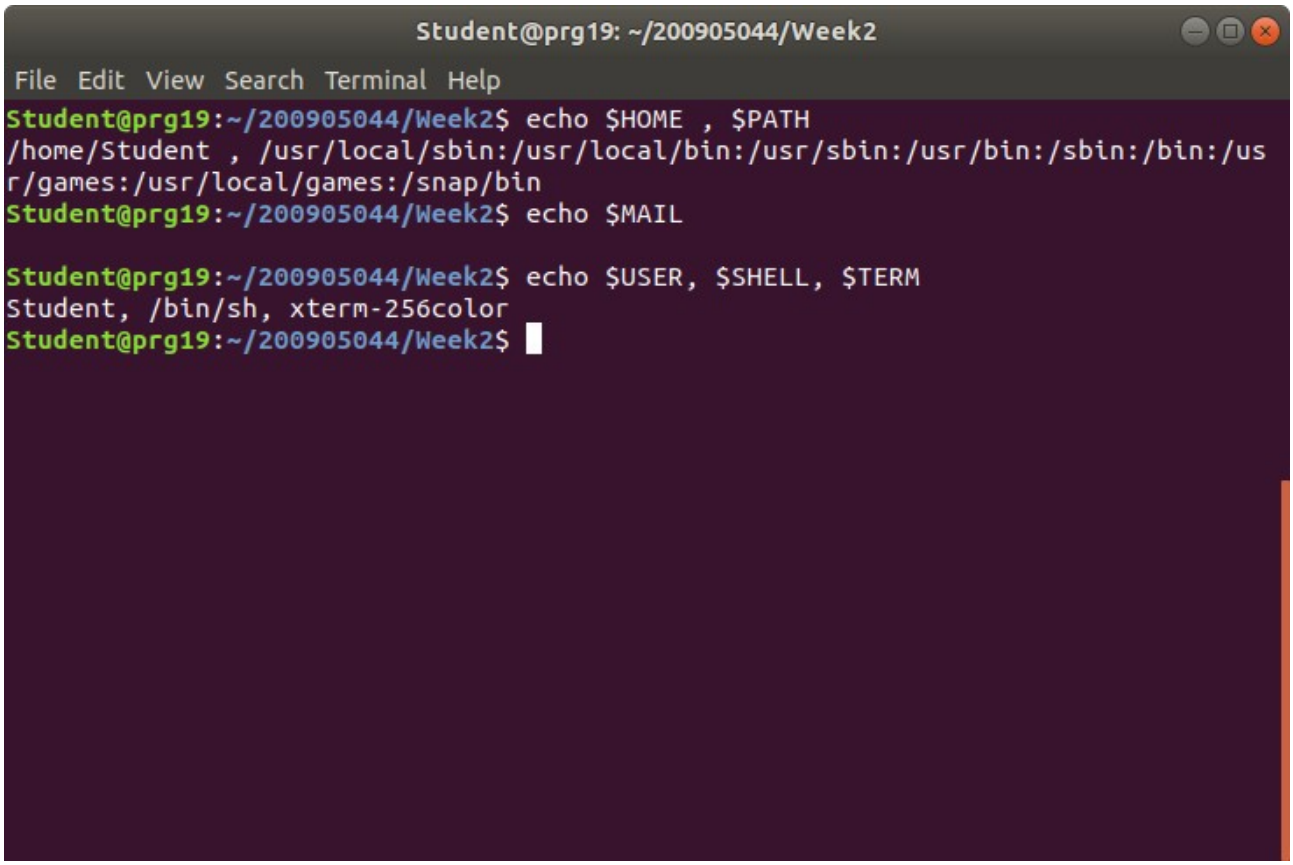
I)

1) Try the following shell commands

$ echo $HOME , $PATH

$ echo $MAIL

$ echo $USER, $SHELL, $TERM



2) Try the following code snippet-

$ firstname=Rakesh

$ lastname=Sharma

$ echo $firstname $lastname

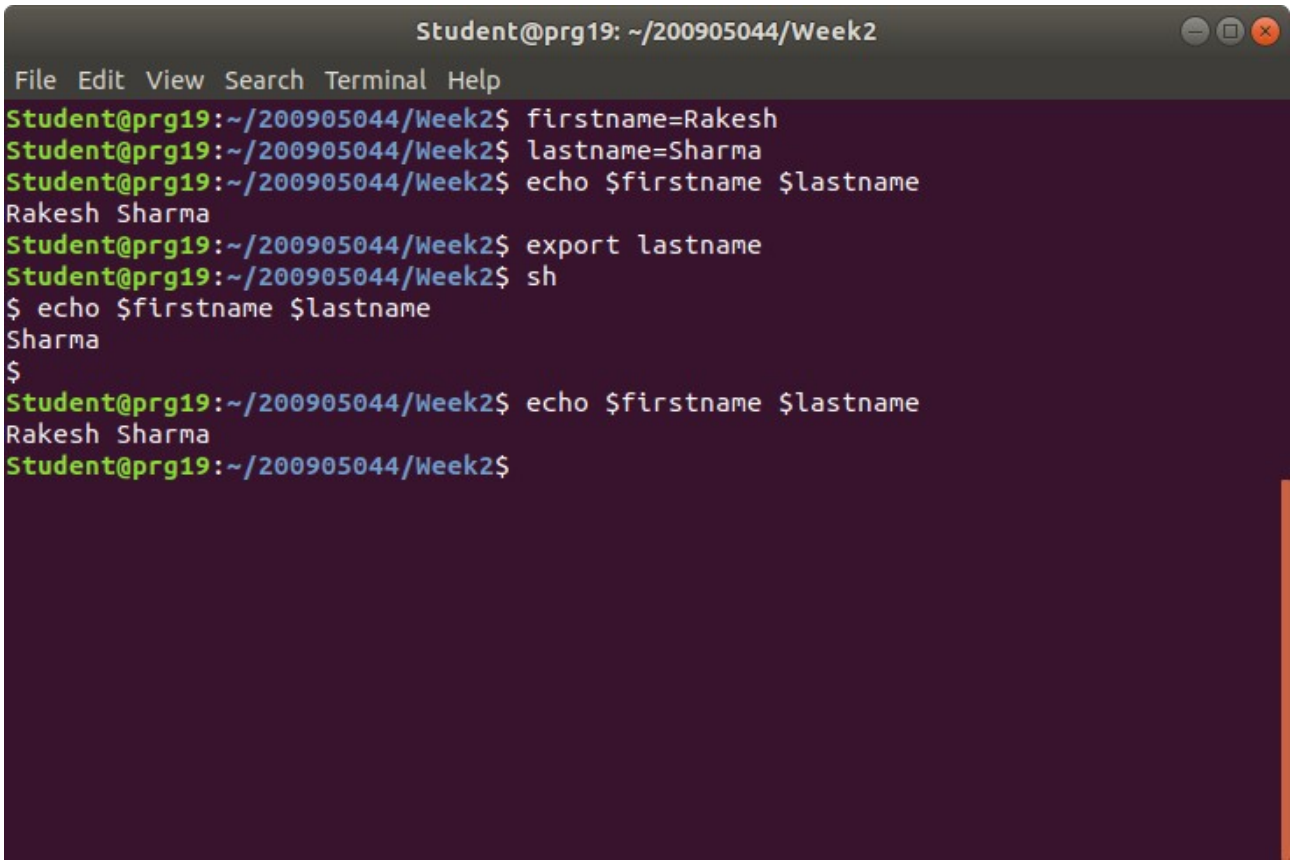
$ export lastname

$ sh

$ echo $firstname $lastname

$ ^D

$ echo $firstname $lastname



3) Try the following code snippet-

$ cat > script.sh

echo the name of this script is $0

echo the first argument is $1

echo a list of all arguments is $*

echo this script places the date into a temporary file

echo called $1.$$

date > $1.$$

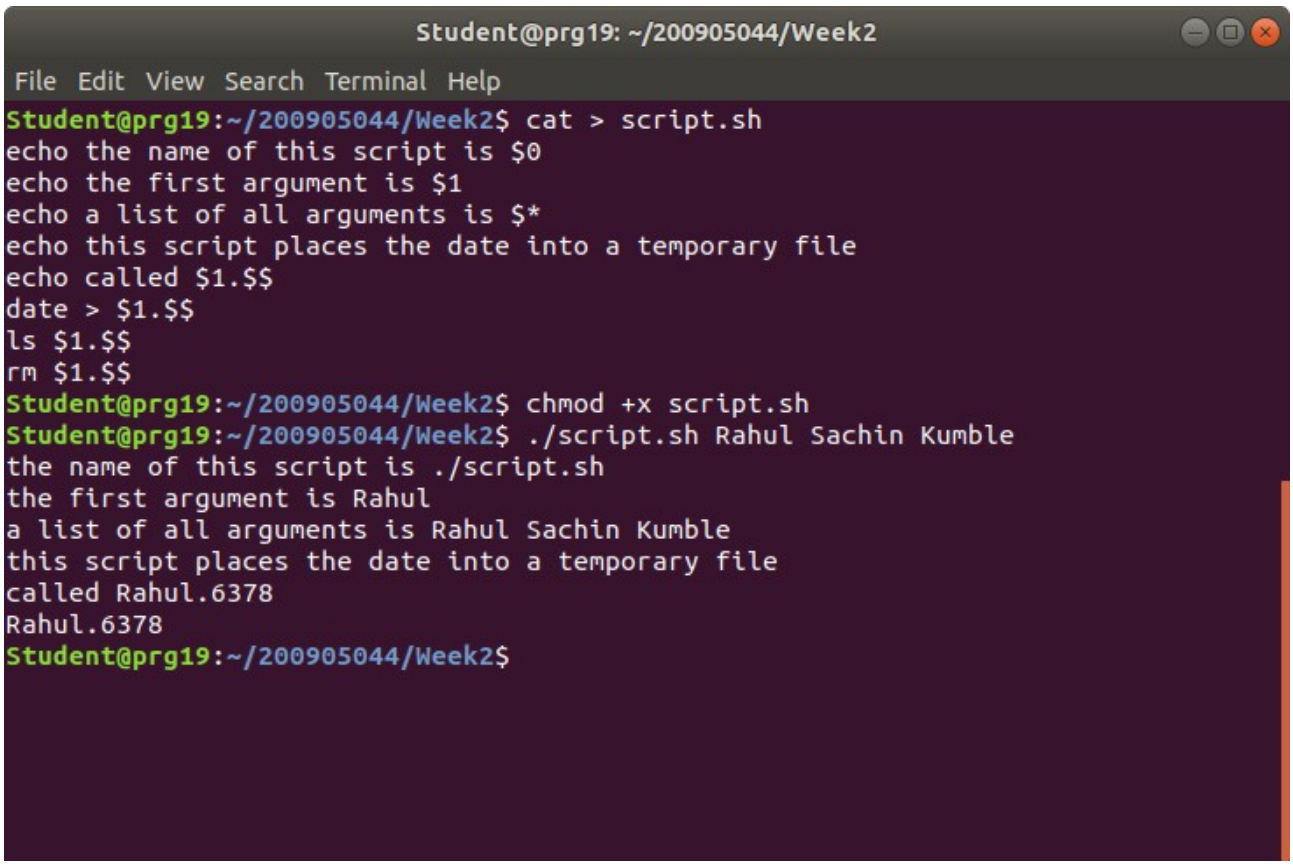
ls $1.$$

rm $1.$$

^D

$ chmod +x script.sh

$ ./script.sh Rahul Sachin Kumble

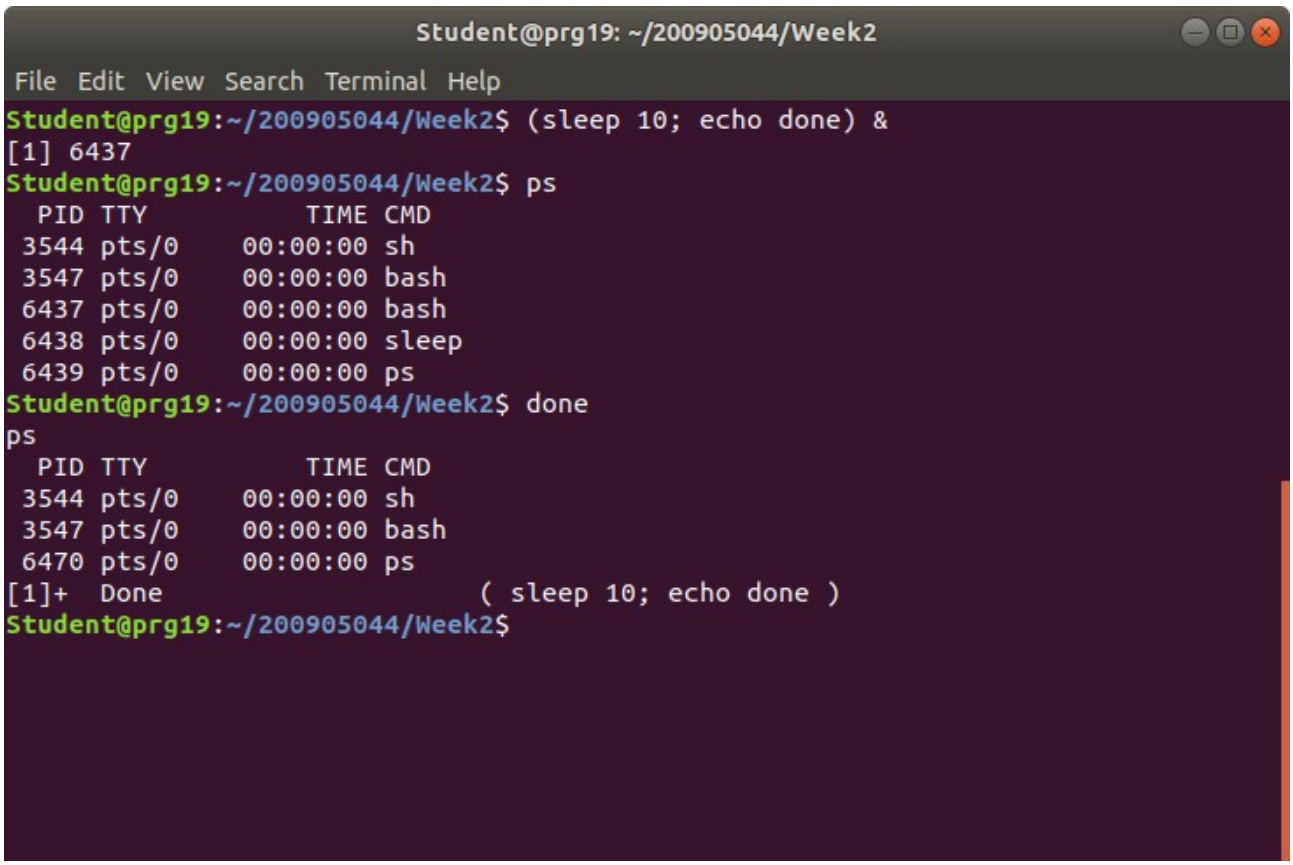


II)

1) Try the following:

$ (sleep 10; echo done) &

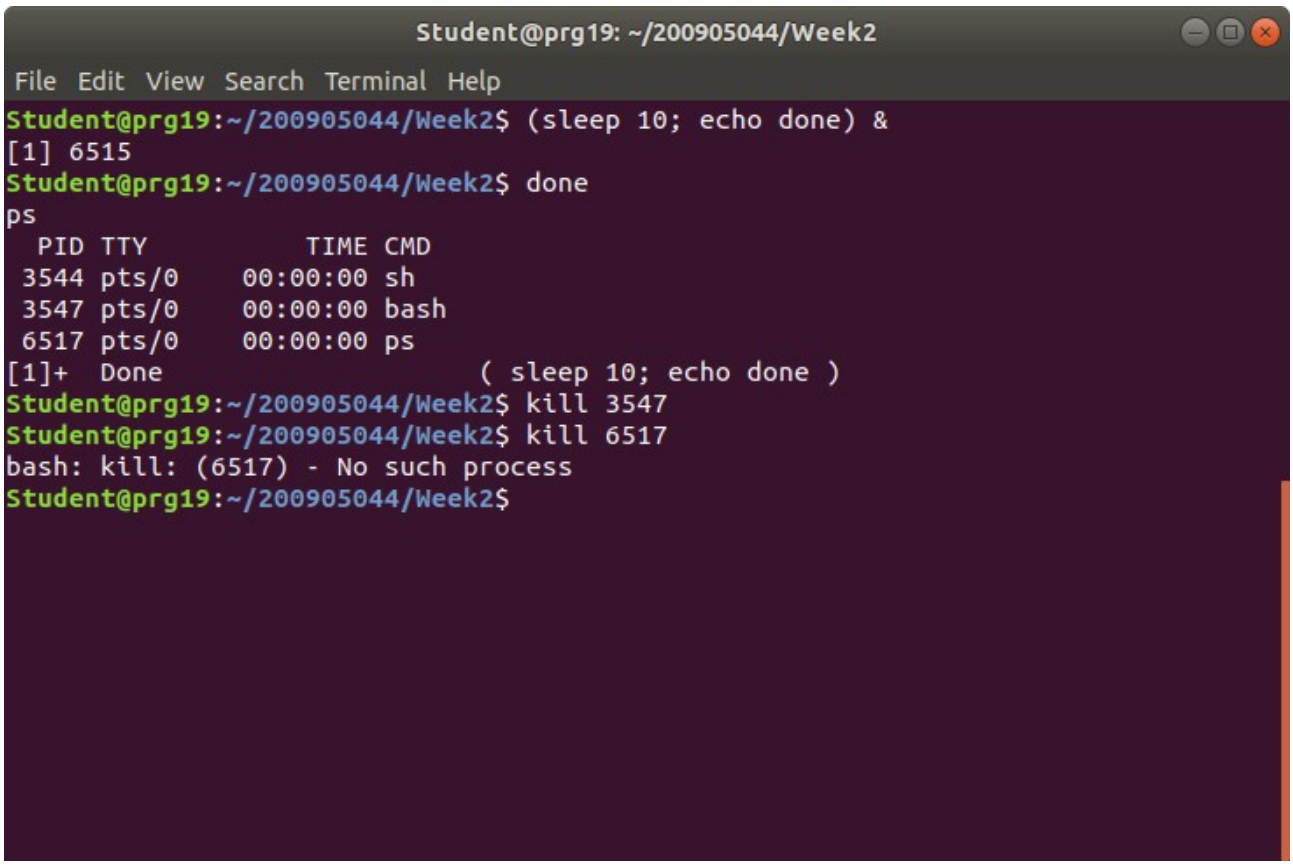
$ ps



2) Try the following:

$ (sleep 10; echo done) &

$ kill pid

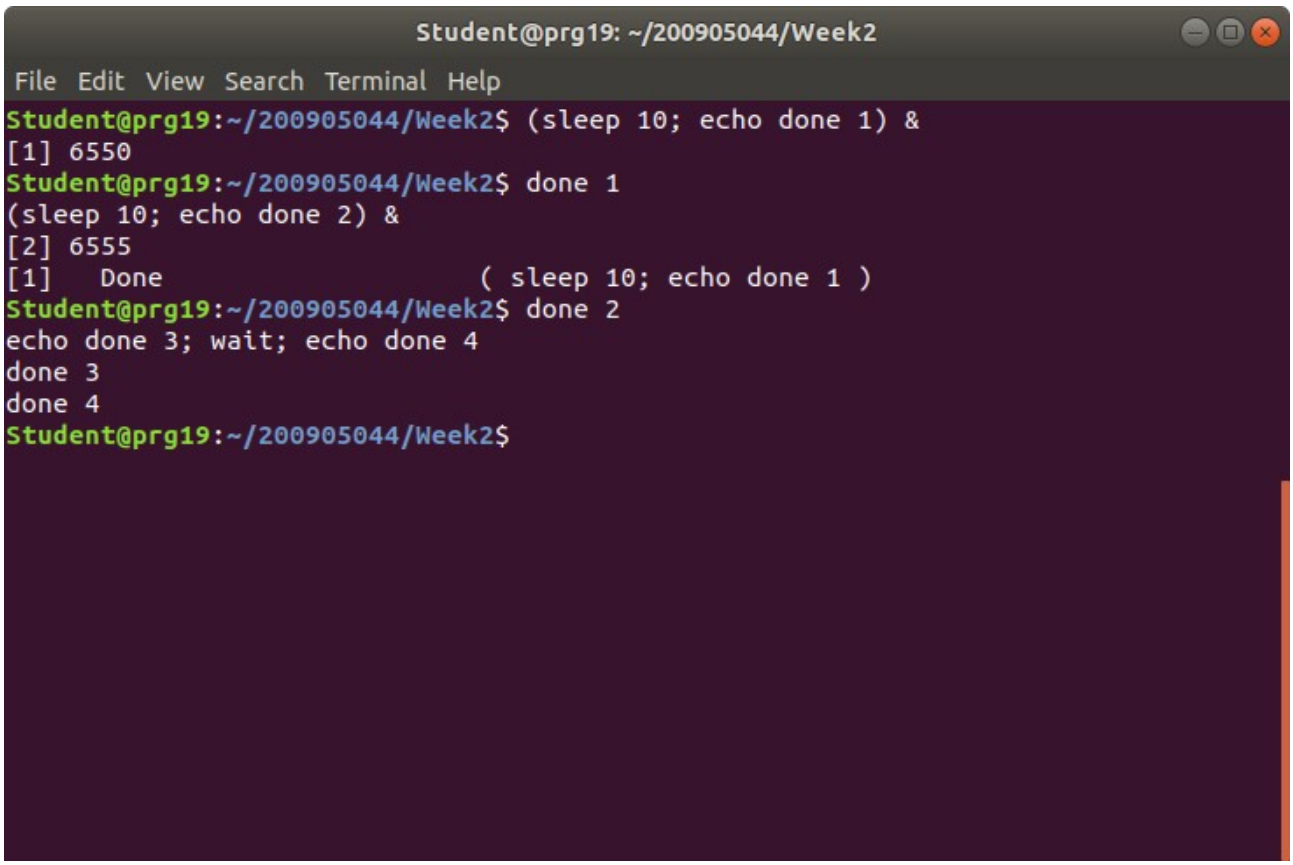


3) Try the following:

$ (sleep 10; echo done 1) &

$ (sleep 10; echo done 2) &

$ echo done 3; wait; echo done 4



III) Write shell scripts for the following:

1) List all files under the given input directory, whose extension has only one character.

$ cat > w1q1.sh

echo Enter the directory name:

read d

cd $d && ls *.?

^D

$ chmod +x w1q1.sh

$ ./w1q1.sh

2) Write a shell script that accepts 2 cmd line parameters. 1st parameter indicates the directory and the 2nd parameter indicates a regular expression. The script should display all files and directories in the directory specified in the 1st argument matching the format specified in the 2nd argument.

$ cat > w1q2.sh

cd $1 && ls $2

^D

$ chmod +x w1q2.sh

$ ./w1q2.sh newDir *.txt

3) Count the number of users logged on to the system. Display the output.

cat > w1q3.sh

echo Number of logged in users are `who | wc -l`

^D

$ chmod +x w1q3.sh

$ ./w1q3.sh

4) Count only the number of files in the current directory

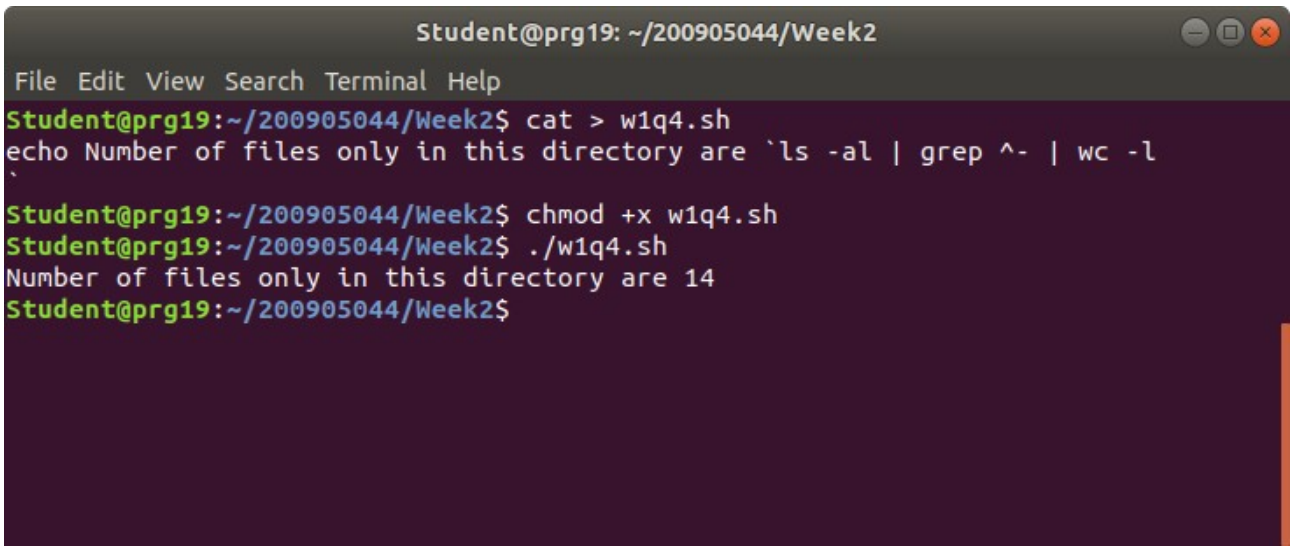
cat > w1q4.sh

echo Number of files only in this directory are `ls -al | grep ^- | wc -l`

^D

$ chmod +x w1q4.sh

$ ./w1q4.sh



5) Write a shell script that takes 2 sorted numeric files as input and produces a single sorted numeric file without any duplicate contents.

cat > w1q5.sh

echo Enter name of 1st file:

read first

echo Enter name of 2nd file:

read second

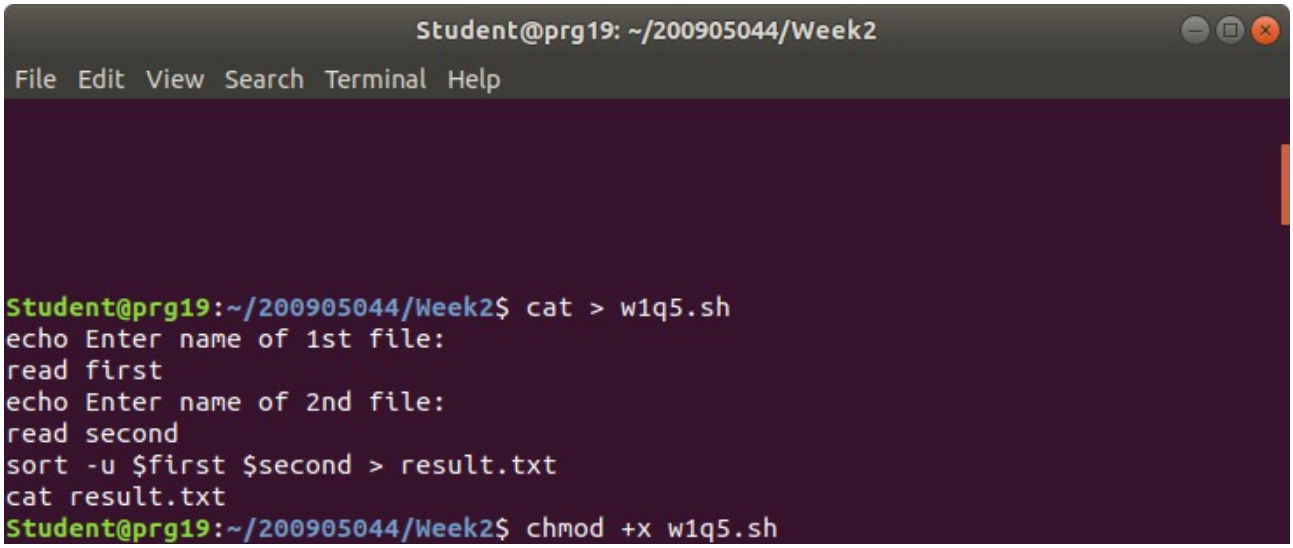
sort -u $first $second > result.txt

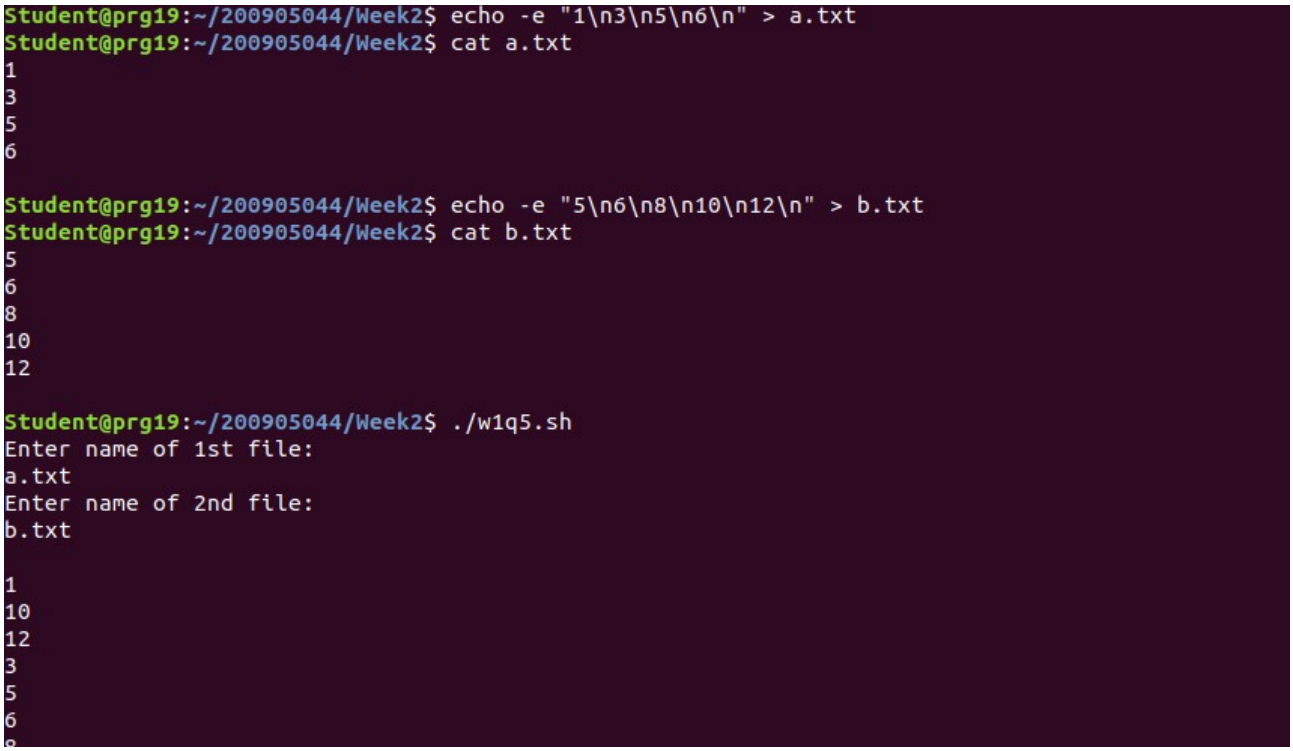
cat result.txt

^D

$ chmod +x w1q5.sh

$ ./w1q5.sh a.txt b.txt





6) Write a shell script that accepts 2 cmd line args. 1st argument indicates format of file and 2nd indicates the destination directory. The script should copy all files as specified in the 1st argument to location indicated by the 2nd argument. Also try the script where the destination directory name has space in it.

cat > w1q6.sh

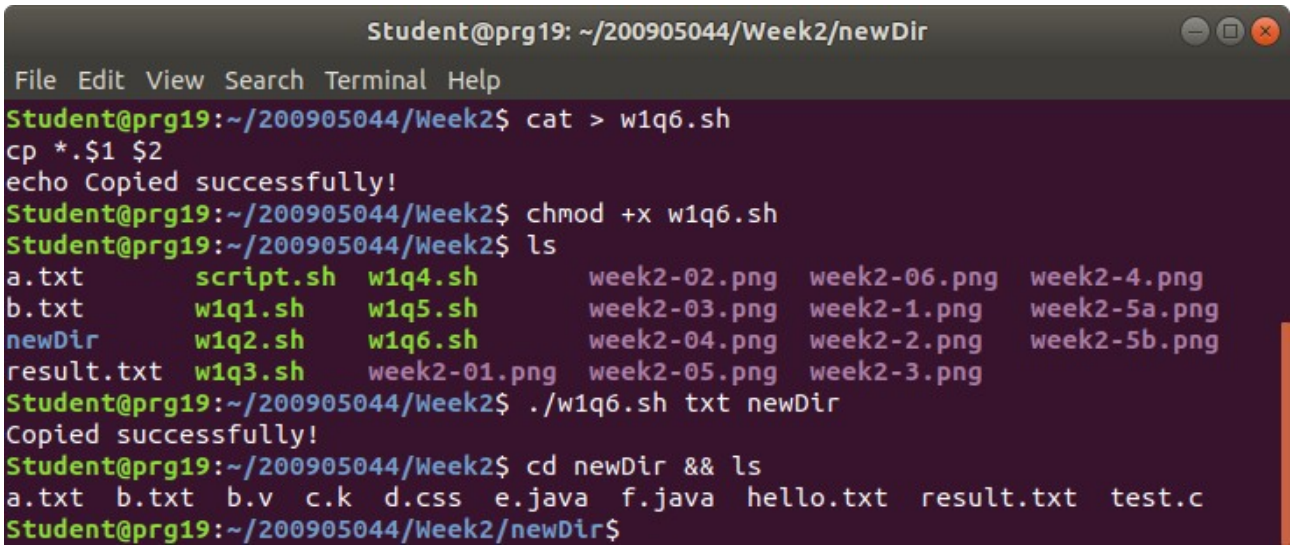
cp *.$1 $2

echo Copied successfully!

^D

$ chmod +x w1q6.sh

$ ./w1q6.sh txt newDir



The command doesn’t work if there is a space in Directory name as it treats it as another argument!

THANK YOU!