Studio 1

Bash Commands

Question 1:

Chmx.bash:

```
1857977@ouranos:~/testfiles$ chmx.bash
1857977@ouranos:~/testfiles$ ■
```

```
ul857977@ouranos:~/testfiles$ chmx.bash
ul857977@ouranos:~/testfiles$ chmx.bash hh
chmod: cannot access 'hh': No such file or directory
/home/user/ul857977/bin/chmx.bash: line 14: echoerror the rights for file hh could not be changed to executable: command not found
ul857977@ouranos:~/testfiles$ cd
ul857977@ouranos:~/testfiles$ cd
ul857977@ouranos:~bash documents
chmod: cannot access 'documents': No such file or directory
/home/user/ul857977/bin/chmx.bash: line 14: echoerror the rights for file documents could not be changed to executable: command not found
ul857977@ouranos:~$
```

Lshead:

```
#I/bin/bash
#prints first set or last set of lines, number of lines is variable
dir=$1
#directory is first arguement entered
cd $NOME/$dir
#for file in current directory
for file in *;
do

echo $file
    echo "type 'head' for the first set of lines or 'tail' for the last set of lines"

read choice

if [ $choice == "head" ]

then

echo "Type the number of lines you want to read from the beginning of " $file
    read fnumber
    head -$fnumber $file
    #prints first number of lines
elif [ $choice = "tail" ]

then

echo "How many lines do you want to read from the END of "$file
    read end_number
    tail -$end_number $file
    #prints last number of lines
else

echo "Error, please type either 'head' or 'tail'"

fi

done
# command will keep looping for all files in current directory
```

```
u1857977@ouranos:~$ lshead.bash testfiles
file1
type 'head' for the first set of lines or 'tail' for the last set of lines
head
Type the number of lines you want to read from the beginning of file1
1
This is file 1
file2
type 'head' for the first set of lines or 'tail' for the last set of lines
tail
How many lines do you want to read from the END of file2
1
This is file 2
```

```
Type the number of lines you want to read from the beginning of file7
This is file 7
ohonedir
type 'head' for the first set of lines or 'tail' for the last set of lines
nead
Type the number of lines you want to read from the beginning of phonedir
"ALLEN","Gary","Dr",2152,"g.allen@hud.ac.uk"
"BAKER", "Paul C", "Dr", 2302, "p.c.baker@hud.ac.uk"

"BOOTH", "Dexter J", "Dr", 2908, "d.j.booth@hud.ac.uk"

"ENGLAND", "Roger K", "Mr", 2152, "r.k.england@hud.ac.uk"

"HOOD", "Peter W L", "Mr", 2909, "p.w.l.hood@hud.ac.uk"
"JACKSON","Adrian R","Dr",2098,"a.r.jackson@hud.ac.uk"
"KITCHIN","Diane E","Dr",2204,"d.e.kitchin@hud.ac.uk"
"LU","Joan","Dr",2922,"j.lu@hud.ac.uk"
"LUNN","Ken","Dr",3118,"k.lunn@hud.ac.uk"
"MASON","John C","Professor",2680,"j.c.mason@hud.ac.uk"
stafflist
type 'head' for the first set of lines or 'tail' for the last set of lines
tail
How many lines do you want to read from the END of stafflist
'LU","Joan","Dr",2922,"j.lu@hud.ac.uk"
'LUNN","Ken","Dr",3118,"k.lunn@hud.ac.uk"
'MASON","John C","Professor",2680,"j.c.mason@hud.ac.uk"
'McCLUSKEY","T Lee","Professor",2247,"t.l.mccluskey@hud.ac.uk"
"NEWMAN","Christopher","Dr",2912,"c.newman@hud.ac.uk"
"OSBORNE","Hugh R","Dr",3672,"h.r.osborne@hud.ac.uk"
"PRIESTLEY","John B","Mr",2467,"j.b.priestley@hud.ac.uk"
"SIMPSON","Ronald M","Mr",2211,"r.m.simpson@hud.ac.uk"
"SMITH","Ann","Ms",2979,"a.smith@hud.ac.uk"
"STURDY","Paula","Ms",2927,"p.sturdy@hud.ac.uk"
"TURNER","John K","Dr",2422,"j.k.turner@hud.ac.uk"
 WEST", "Margaret M", "Dr", 3046, "m.m.west@hud.ac.uk"
telnos
type 'head' for the first set of lines or 'tail' for the last set of lines
 ype the number of lines you want to read from the beginning of telnos
"ALLEN" "Gary" "Dr" 2152 "q allen@hud.ac.uk"
```

<u>Del</u>:

```
u1857977@ouranos:~/testfiles$ del.bash file1
file1 has been copied to directory .waste
u1857977@ouranos:~/testfiles$ del.bash f
f does not exist
u1857977@ouranos:~/testfiles$ cd
u1857977@ouranos:~$ mkdir dir
u1857977@ouranos:~$ del.bash dir
dir does not exist
```

Wastesize:

```
#!/bin/bash
#Program outputs number of files in waste bin

cd ~/bin/.waste
num_of_files=$(ls -al | wc -l)

echo "The number of files in the wastebin are $num_of_files"
```

```
u185/9//@ouranos:~/bin$ wastesize.basn
The number of files in the wastebin are 6
u1857977@ouranos:~/bin$ cd .waste
u1857977@ouranos:~/bin/.waste$ >file
u1857977@ouranos:~/bin/.waste$ cd ..
u1857977@ouranos:~/bin$ cd
u1857977@ouranos:~$ wastesize.bash
The number of files in the wastebin are 7
u1857977@ouranos:~$
```

Emptywaste.bash

```
u1857977@ouranos:~/bin/.waste$ mk dir test
mk: command not found
u1857977@ouranos:~/bin/.waste$ >kjh
u1857977@ouranos:~/bin/.waste$ >kj
u1857977@ouranos:~/bin/.waste$ emptywaste.bash
The waste bin was emptied
u1857977@ouranos:~/bin/.waste$ ls -al
total 8
drwxr-xr-x 2 u1857977 stud1819 4096 Dec 14 23:45 .
drwxr-xr-x 3 u1857977 stud1819 4096 Dec 14 23:44 ..
u1857977@ouranos:~/bin/.waste$
```

Listwaste:

```
#!/bin/bash
#lists al files in .wate directory
cd ~/bin/.waste
echo "Below are the files in the waste bin in order of smallest to largest"
du -h * | sort -hr
#disk usage - make size readable - sort from largest to smallest
```

```
Below are the files in the waste bin in order of smallest to largest
4.0K testdir
4.0K file1
0 kammy.txt
0 file
```

Question 2:

```
u1857977@ouranos:~/bin$ cd
u1857977@ouranos:~$ mkdir testu
u1857977@ouranos:~$ cd testu
u1857977@ouranos:~/testu$ createfiles 5 test 10
bash: /home/user/u1857977/bin/createfiles: No such file or directory
u1857977@ouranos:~/testu$ createfiles.bash 5 test 10
created test1.txt , containing 10 lines
created test2.txt , containing 10 lines
created test3.txt , containing 10 lines
created test4.txt , containing 10 lines
created test5.txt , containing 10 lines
u1857977@ouranos:~/testu$ ls -al
total 28
drwxr-xr-x 2 u1857977 stud1819 4096 Dec 14 23:47 .
drwx----- 36 u1857977 root 4096 Dec 14 23:46 ..
-rw-r--r-- 1 u1857977 stud1819 810 Dec 14 23:47 test1.txt
-rw-r--r-- 1 u1857977 stud1819 810 Dec 14 23:47 test2.txt
 rw-r--r-- 1 u1857977 stud1819 810 Dec 14 23:47 test3.txt
 rw-r--r-- 1 u1857977 stud1819 810 Dec 14 23:47 test4.txt
-rw-r--r-- 1 u1857977 stud1819 810 Dec 14 23:47 test5.txt
u1857977@ouranos:~/testu$
```

Search.bash

```
u1857977@ouranos:~$ search.bash
Enter the name of the file you wish to search for
file1.txt
realpath: missing operand
Try 'realpath --help' for more information.
more: bad usage
Try 'more --help' for more information.
Word to search: ^Z
[16]+ Stopped
                               search.bash
u1857977@ouranos:~$ search.bash
Enter the name of the file you wish to search for
test.txt
Word to search: fdv
word doesn't exists in the chose file
Would you like to see the contents of the file (y/n)?
Here is the content:
1236hgjdbjkad
```

Masher.bash

```
u1857977@ouranos:~$ masher.bash
enter string
jhdb%&%^
8
enter string
&^%^**
6
0
4
10
u1857977@ouranos:~$ ■
```