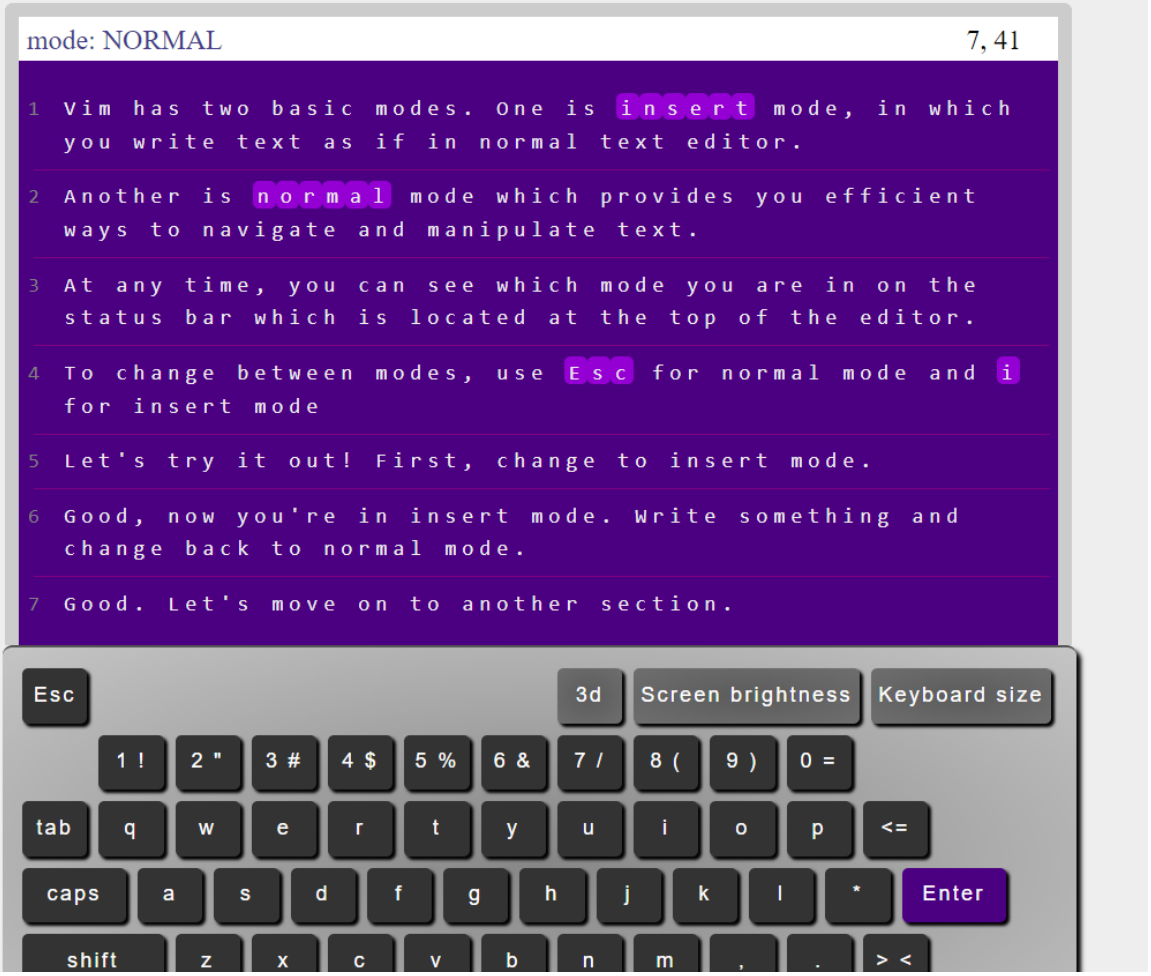
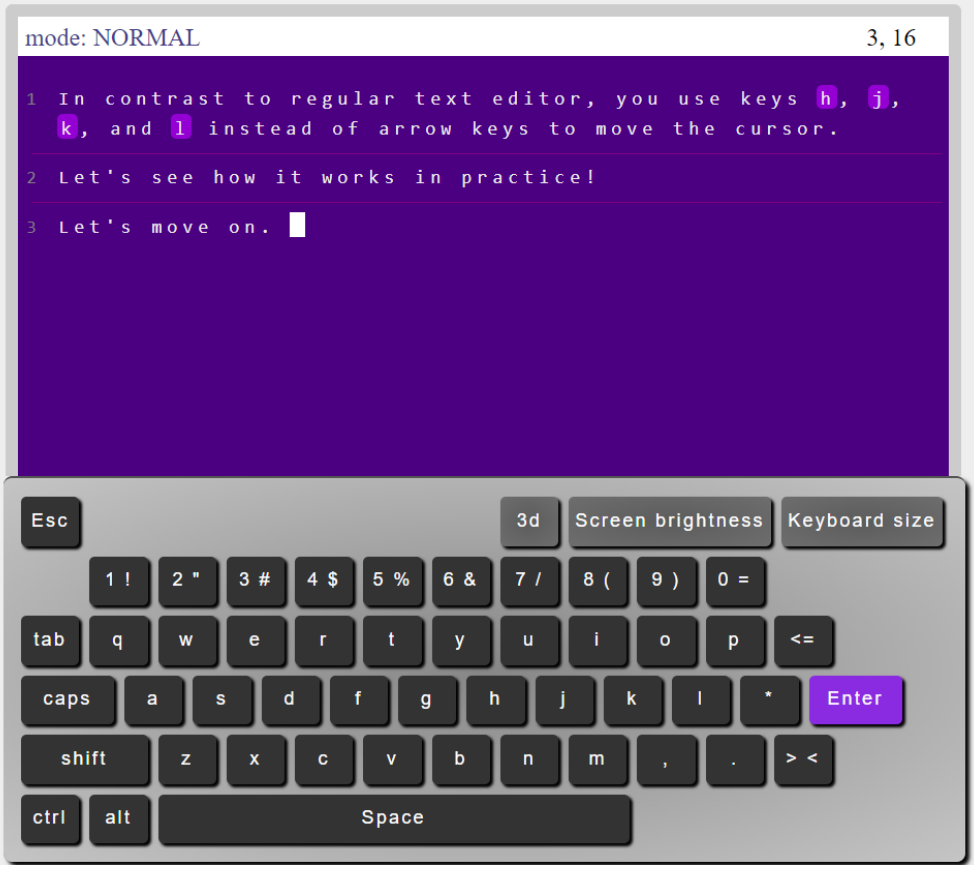
Omar ahmed alzahrani – 1845570 – Lab 2

Part 1:

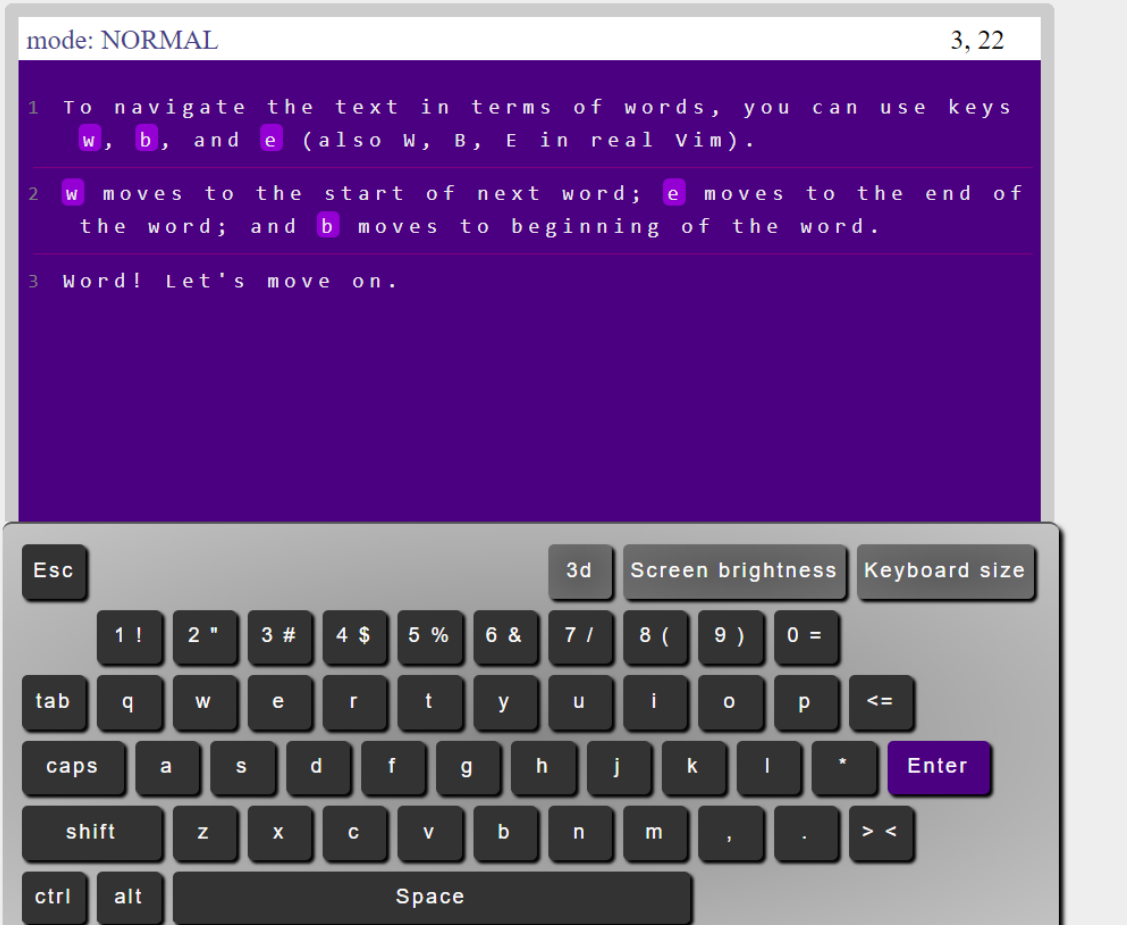
Two modes, insert and normal



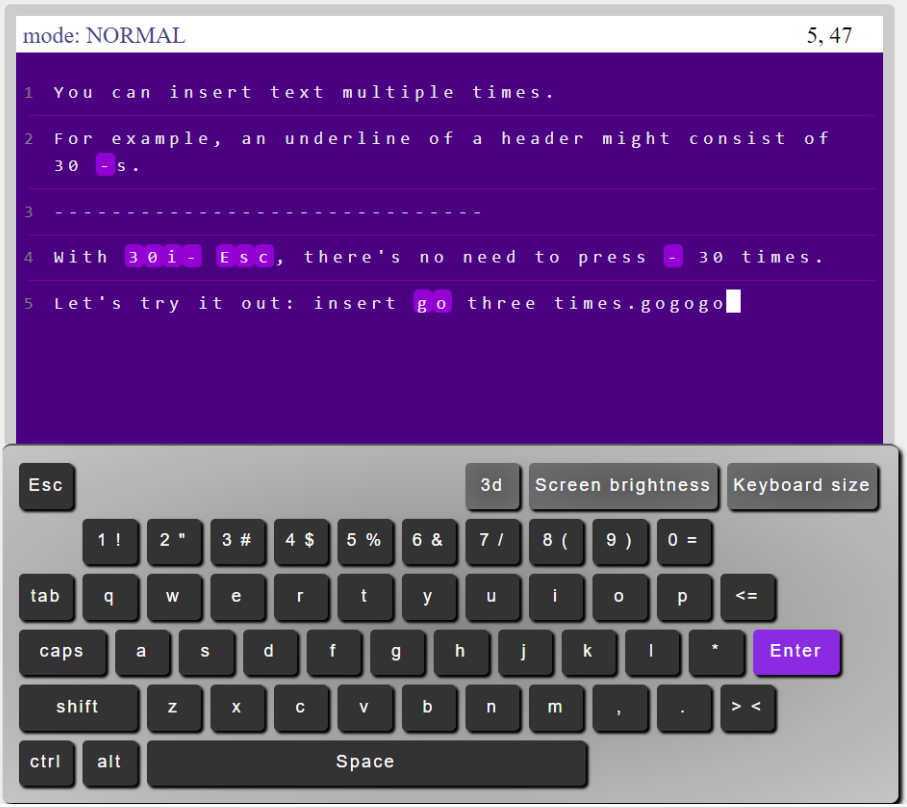
Basic movement: h, j, k, and l



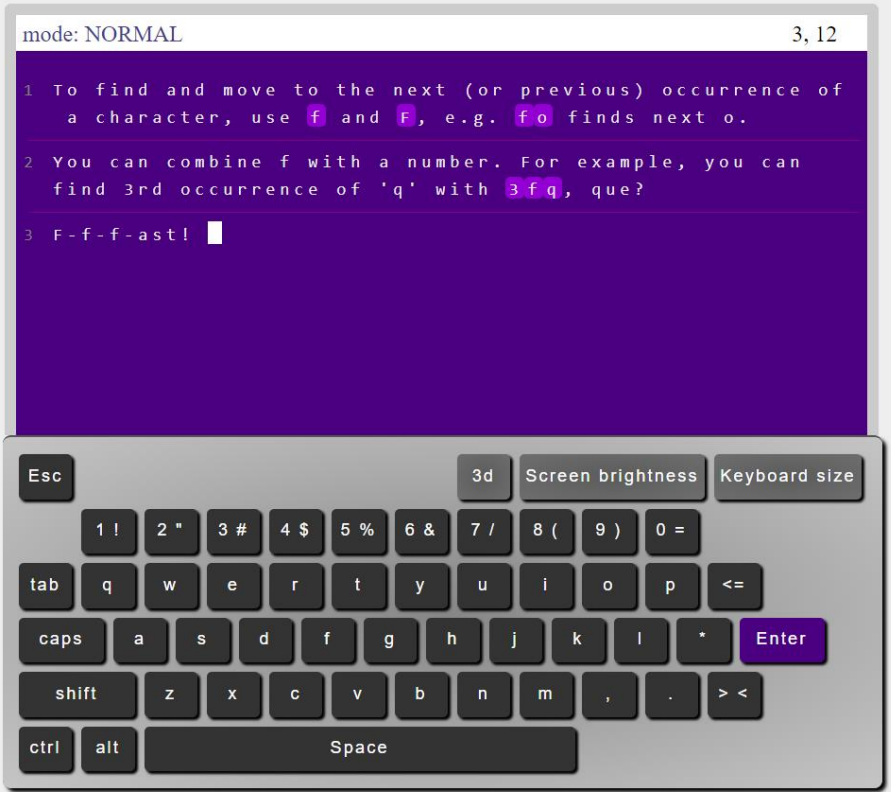
Word movement: w, e, b



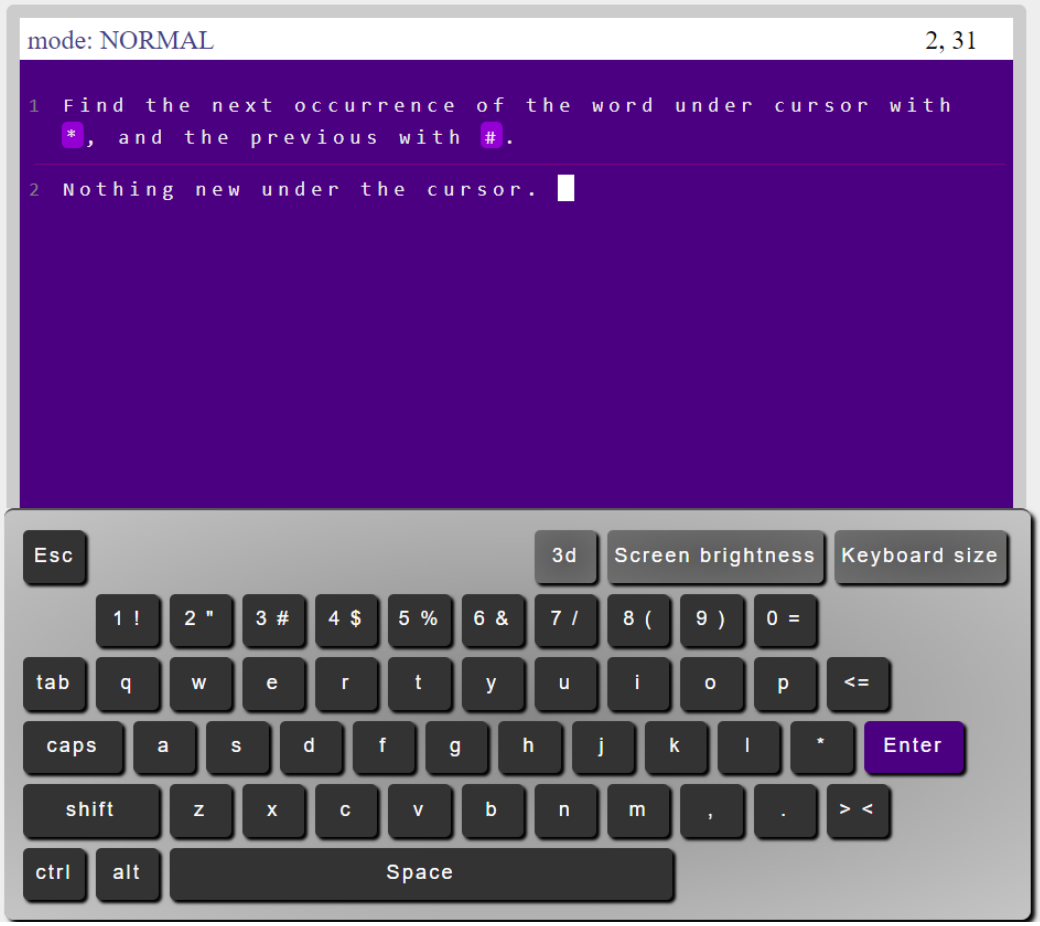
Insert text repeatedly, e.g. 3iYes



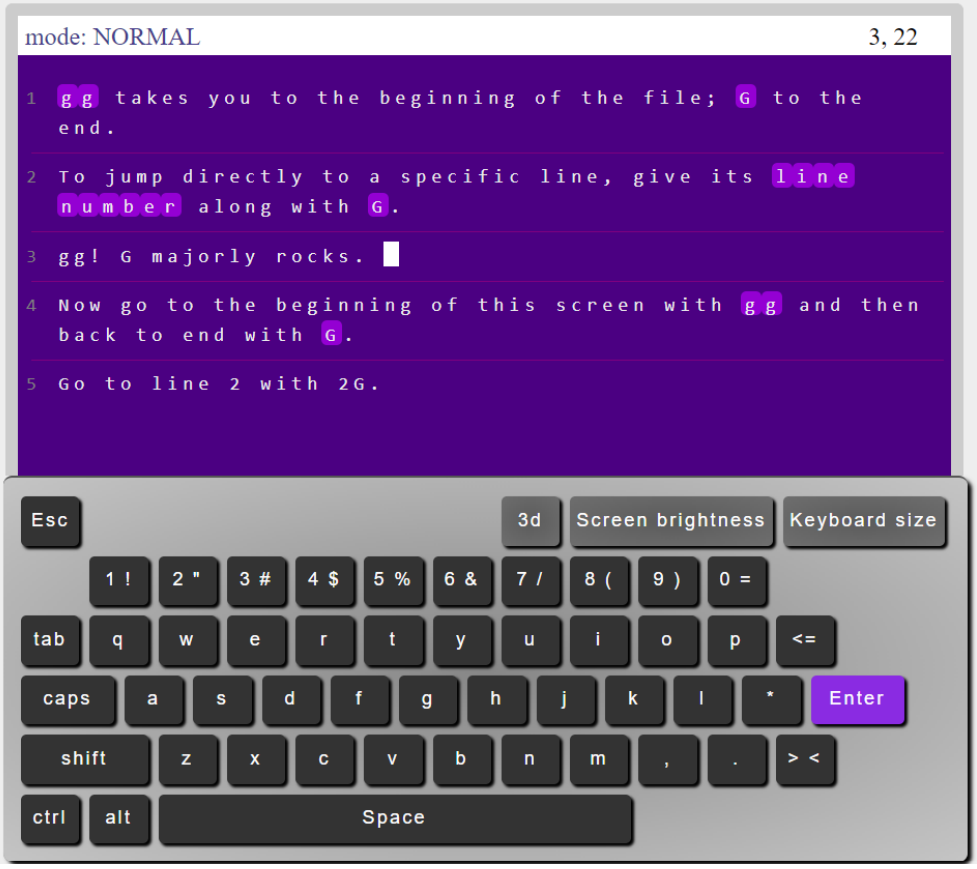
Find a character, f and F



Find word under cursor, * and



Goto line, g and G



Part 2:

```
Linux lamp 4.19.0-8-amd64 #1 SMP Debian 4.19.98-1+deb10u1 (2020-04-27) x86_6
Last login: Thu Dec 15 18:51:18 2022 from 192.168.56.1
omar@lamp ~$ cat
hello
hello
omar@lamp ~$ cat > list1
pear
banana
apple
omar@lamp ~$ cat list1
pear
banana
apple
omar@lamp ~$ cat > list2
orange
plum
mango
omar@lamp ~$ cat >> list1
peach
grape
omar@lamp ~$ cat list1
pear
banana
apple
peach
grape
omar@lamp ~$ cat list1 list2 > biglist
omar@lamp ~$ cat biglist
pear
banana
apple
peach
grape
orange
plum
mango
omar@lamp ~$
```

```
omar@lamp ~$ sort < biglist
apple
banana
grape
mango
orange
peach
pear
plum
omar@lamp ~$ sort < biglist > slist
omar@lamp ~$ cat slis
cat: slis: No such file or directory
omar@lamp ~$ cat slist
apple
banana
grape
mango
orange
peach
pear
plum
omar@lamp ~$ who
root     tty1         Dec 15 16:24
omar     pts/0        Dec 15 19:07 (192.168.56.1)
omar     pts/1        Dec 15 18:47 (192.168.56.1)
omar@lamp ~$ who > names.txt
omar@lamp ~$ sort < names.txt
omar     pts/0        Dec 15 19:07 (192.168.56.1)
omar     pts/1        Dec 15 18:47 (192.168.56.1)
root     tty1         Dec 15 16:24
omar@lamp ~$ who | sort
omar     pts/0        Dec 15 19:07 (192.168.56.1)
omar     pts/1        Dec 15 18:47 (192.168.56.1)
root     tty1         Dec 15 16:24
omar@lamp ~$ who | wc -1
wc: invalid option -- '1'
Try 'wc --help' for more information.
omar@lamp ~$ who | wc -l
3
omar@lamp ~$
```

```
root@lamp ~/Lab2# work
-bash: ./work: Permission denied
root@lamp ~/Lab2# ls -l
total 4
-rw-r--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2# chmod u+x work
root@lamp ~/Lab2# ls -l
total 4
-rwxr--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2# work
work
Hello
total 4
-rwxr--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2# ls # display the names of files in the current directory
work
root@lamp ~/Lab2# sleep 1 # suspend execution for one second
root@lamp ~/Lab2# printf "Hello\n" # display text
Hello
root@lamp ~/Lab2# sleep 2 # suspend execution for two seconds
root@lamp ~/Lab2# ls -l # display file information in long format. (That's a sma
ll L, not a one.)ls # display the names of files in the current directory
total 4
-rwxr--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2# sleep 1 # suspend execution for one second
root@lamp ~/Lab2# printf "Hello\n" # display text
Hello
root@lamp ~/Lab2# sleep 2 # suspend execution for two seconds
root@lamp ~/Lab2# ls -l # display file information in long format. (That's a sma
ll L, not a one.)
total 4
-rwxr--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2#
root@lamp ~/Lab2# work > result
root@lamp ~/Lab2# cat result
result
work
Hello
total 8
-rw-r--r-- 1 root root  18 Dec 25 16:56 result
-rwxr--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2# rm result
root@lamp ~/Lab2# work > result
root@lamp ~/Lab2# work >> result
root@lamp ~/Lab2# cat result
result
work
Hello
total 8
```

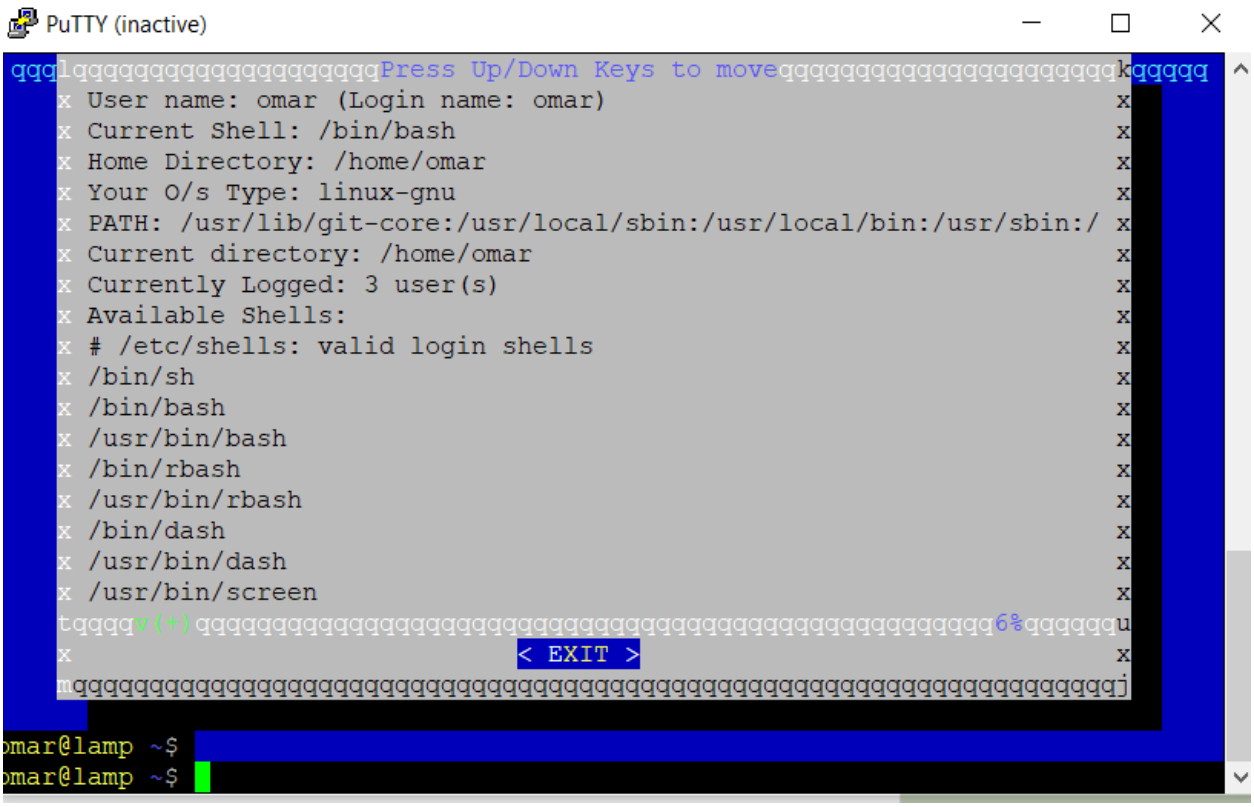
```
root@lamp ~/Lab2# cat result
result
work
Hello
total 8
-rw-r--r-- 1 root root  18 Dec 25 16:56 result
-rwxr--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2# rm result
root@lamp ~/Lab2# work > result
root@lamp ~/Lab2# work >> result
root@lamp ~/Lab2# cat result
result
work
Hello
total 8
-rw-r--r-- 1 root root  18 Dec 25 16:56 result
-rwxr--r-- 1 root root 255 Dec 26  2022 work
result
work
Hello
total 8
-rw-r--r-- 1 root root 136 Dec 25 16:57 result
-rwxr--r-- 1 root root 255 Dec 26  2022 work
root@lamp ~/Lab2#
```

```
root@lamp ~/Lab2# man ls
LS(1)                          User Commands                          LS(1)

NAME
       ls - list directory contents

SYNOPSIS
       ls [OPTION]... [FILE]...

DESCRIPTION
       List  information  about  the FILEs (the current directory by default).
       Sort entries alphabetically if none of -cftuvSUX nor --sort  is  speci-
       fied.

       Mandatory  arguments  to  long  options are mandatory for short options
       too.

       -a, --all
              do not ignore entries starting with .

       -A, --almost-all
              do not list implied . and ..

       --author
root@lamp ~/Lab2#
root@lamp ~/Lab2# man sleep
SLEEP(1)                       User Commands                       SLEEP(1)

NAME
       sleep - delay for a specified amount of time

SYNOPSIS
       sleep NUMBER[SUFFIX]...
       sleep OPTION

DESCRIPTION
       Pause for NUMBER seconds.  SUFFIX may be 's' for seconds (the default),
       'm' for minutes, 'h' for hours or 'd' for days.  Unlike most  implemen-
       tations  that require NUMBER be an integer, here NUMBER may be an arbi-
       trary floating point number.  Given two or more  arguments,  pause  for
       the amount of time specified by the sum of their values.

       --help display this help and exit

       --version
              output version information and exit

AUTHOR
       Written by Jim Meyering and Paul Eggert.
```

```
root@lamp ~/Lab2# man -k file > info
root@lamp ~/Lab2# work &
[1] 18418
root@lamp ~/Lab2# info  result  work
Hello
worktotal 68
-rw-r--r-- 1 root root 58674 Dec 25 17:01 info
-rw-r--r-- 1 root root   236 Dec 25 16:57 result
-rwxr--r-- 1 root root   255 Dec 26  2022 work
^C
[1]+  Done                    work
root@lamp ~/Lab2# work &
[1] 18423
root@lamp ~/Lab2# info  result  work
work &
[2] 18426
root@lamp ~/Lab2# info  result  work
Hello
Hello
total 68
-rw-r--r-- 1 root root 58674 Dec 25 17:01 info
-rw-r--r-- 1 root root   236 Dec 25 16:57 result
-rwxr--r-- 1 root root   255 Dec 26  2022 work
total 68
-rw-r--r-- 1 root root 58674 Dec 25 17:01 info
-rw-r--r-- 1 root root   236 Dec 25 16:57 result
-rwxr--r-- 1 root root   255 Dec 26  2022 work
work
info  result  work

Hello



total 68
-rw-r--r-- 1 root root 58674 Dec 25 17:01 info
-rw-r--r-- 1 root root   236 Dec 25 16:57 result
-rwxr--r-- 1 root root   255 Dec 26  2022 work
^C[1]-  Done                    work
[2]+  Done                    work
root@lamp ~/Lab2# work &
[1] 18438
root@lamp ~/Lab2# info  result  work
ps
  PID TTY          TIME CMD
18295 pts/0    00:00:00 bash
18438 pts/0    00:00:00 bash
18440 pts/0    00:00:00 sleep
18441 pts/0    00:00:00 ps
```

```
root@lamp ~/Lab2# work > out &
[1] 18451
root@lamp ~/Lab2# ps
  PID TTY          TIME CMD
18295 pts/0    00:00:00 bash
18451 pts/0    00:00:00 bash
18454 pts/0    00:00:00 sleep
18455 pts/0    00:00:00 ps
root@lamp ~/Lab2#
```

Part 3:


PuTTY (inactive)
Press Up/Down Keys to move
User name: omar (Login name: omar)
Current Shell: /bin/bash
Home Directory: /home/omar
Your O/s Type: linux-gnu
PATH: /usr/lib/git-core:/usr/local/sbin:/usr/local/bin:/usr/sbin:/
Current directory: /home/omar
Currently Logged: 3 user(s)
Available Shells:
/etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/bin/dash
/usr/bin/dash
/usr/bin/screen
< EXIT >
omar@lamp ~$
omar@lamp ~$