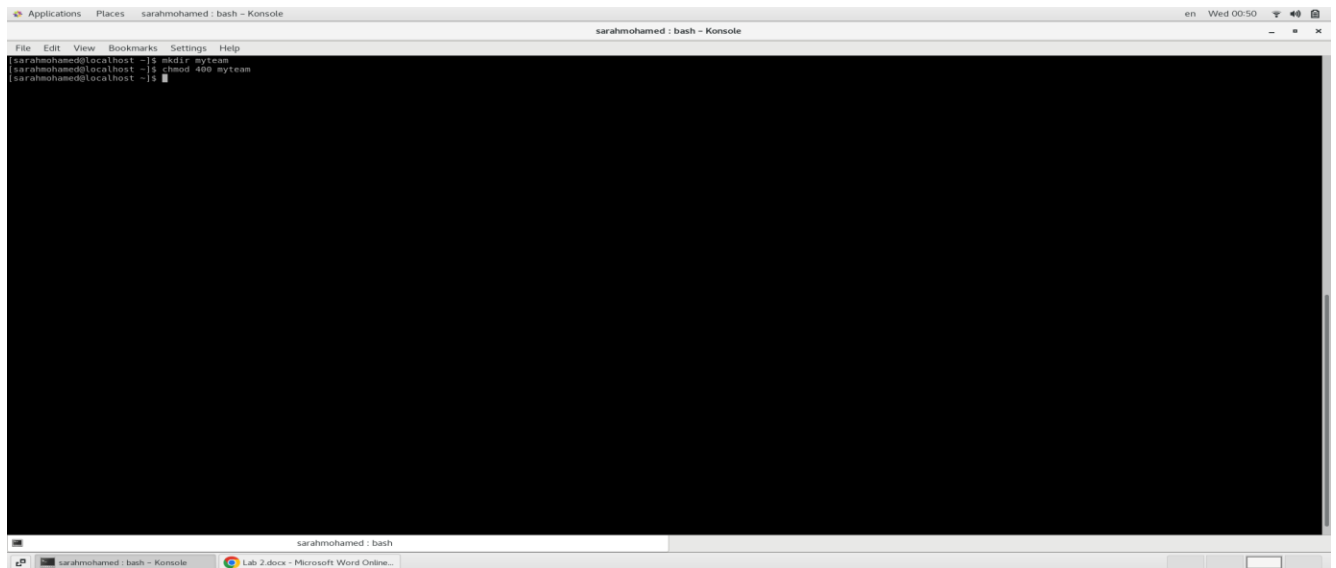


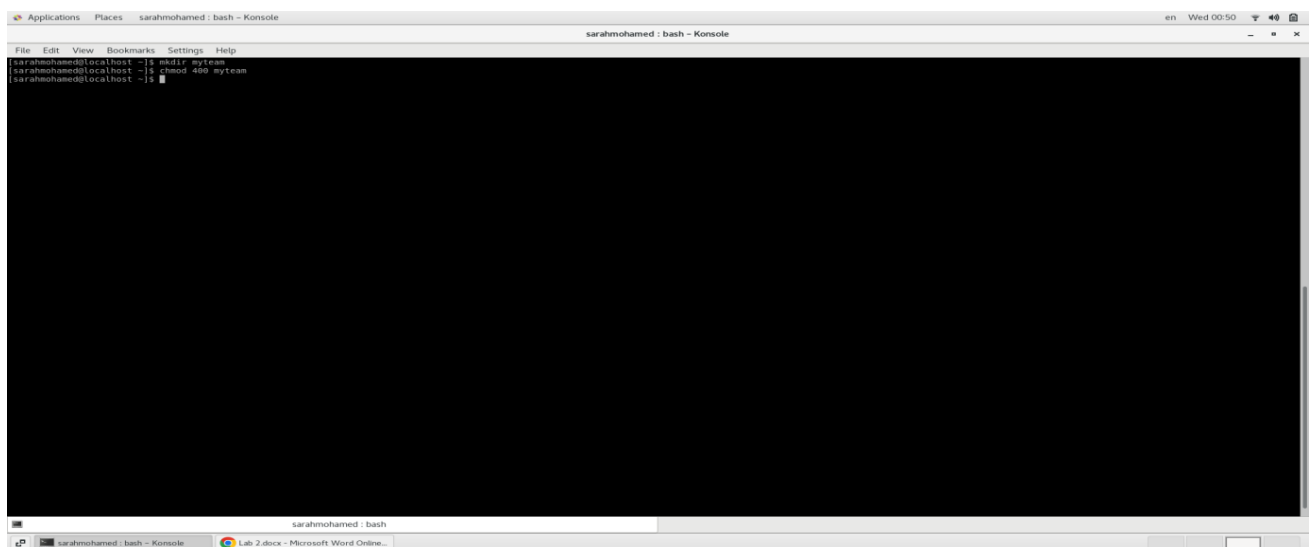
## Lab 2

13. Create a folder called myteam in your home directory and change its permissions to read only for the owner.



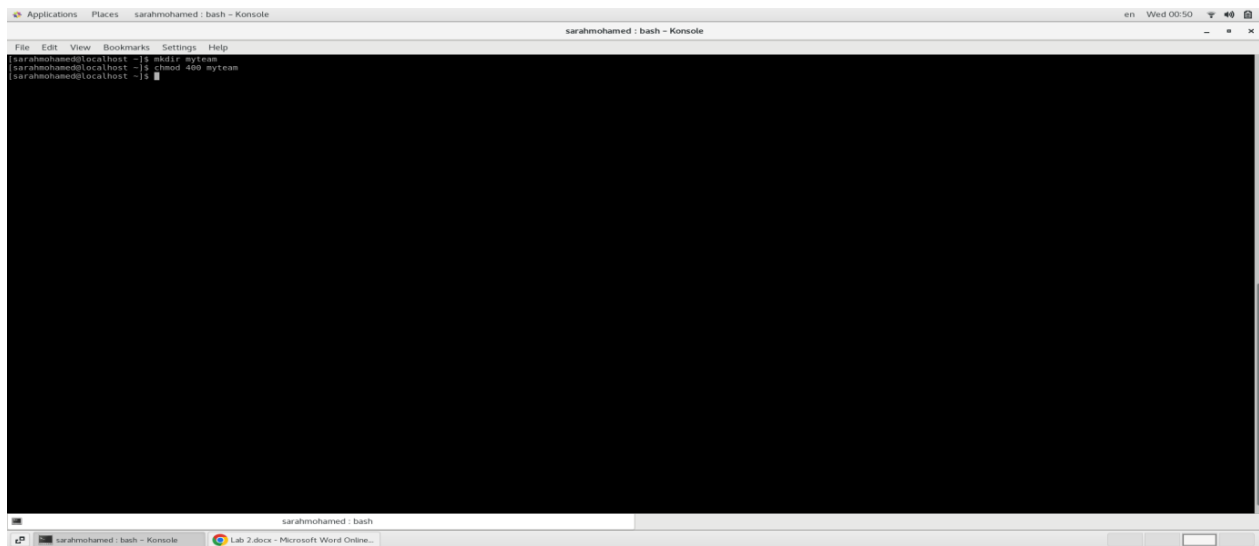
```
Applications  Places  sarahmohamed : bash - Konsole  en  Wed 00:50  🔊  🔍  ⓘ  
sarahmohamed : bash - Konsole  
File Edit View Bookmarks Settings Help  
[sarahmohamed@localhost ~]$ mkdir myteam  
[sarahmohamed@localhost ~]$ chmod 400 myteam  
[sarahmohamed@localhost ~]$
```

14. Log out and log in by another user



```
Applications  Places  sarahmohamed : bash - Konsole  en  Wed 00:50  🔊  🔍  ⓘ  
sarahmohamed : bash - Konsole  
File Edit View Bookmarks Settings Help  
[sarahmohamed@localhost ~]$ mkdir myteam  
[sarahmohamed@localhost ~]$ chmod 400 myteam  
[sarahmohamed@localhost ~]$
```

## 15. Try to access (by cd command) the folder (myteam)



```
sarahmohamed@localhost:~$ cd /myteam
sarahmohamed@localhost:~/myteam$
```

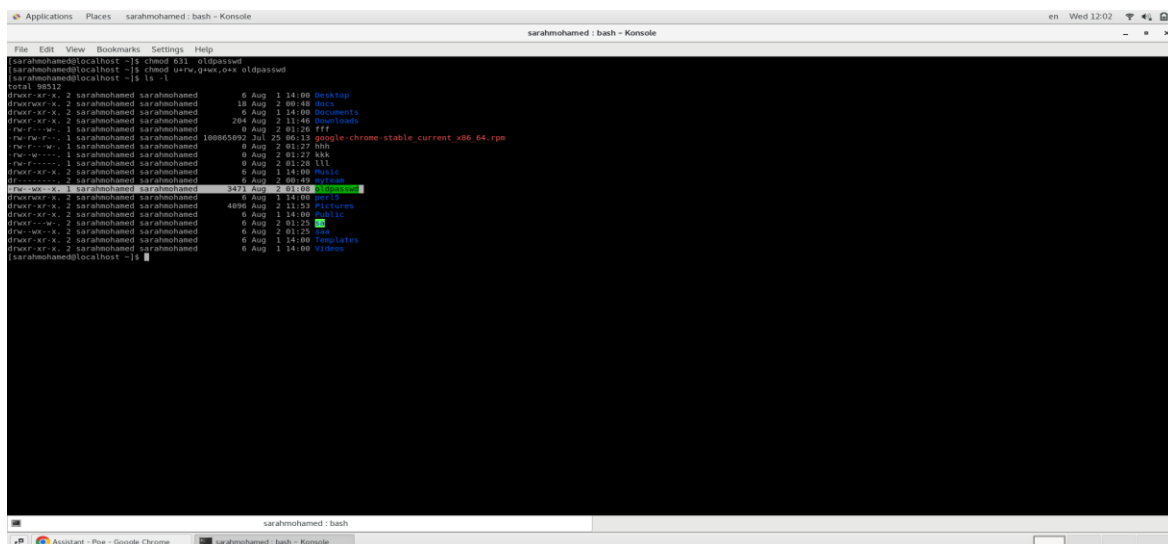
The screenshot shows a terminal window titled 'sarahmohamed : bash - Konsole'. The user has navigated to the /myteam directory using the 'cd' command. The terminal output shows the prompt changing from '~' to '~/myteam'.

## 16. Using the command Line

- Change the permissions of oldpasswd file to give owner read and write

permissions and for group write and execute and execute only for the others

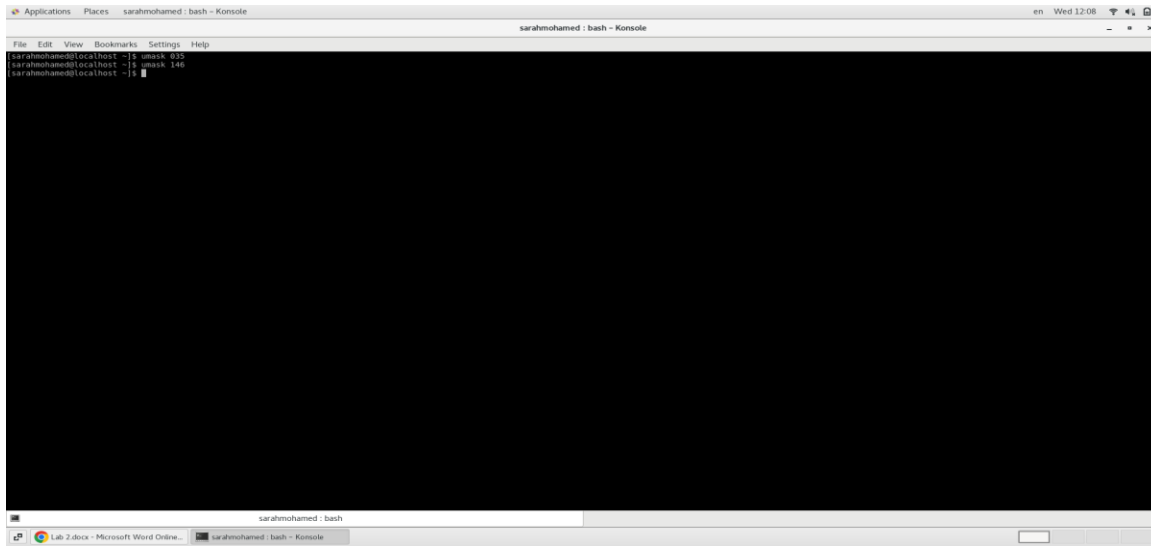
(using chmod in 2 different ways)



```
sarahmohamed@localhost:~$ chmod 631 oldpasswd
sarahmohamed@localhost:~$ ls -l oldpasswd
-rw-r--r-- 1 sarahmohamed sarahmohamed 0 Aug 1 14:00 oldpasswd
sarahmohamed@localhost:~$ ls -l
total 9512
drwxr-xr-x 2 sarahmohamed sarahmohamed 16 Aug 1 14:00 Desktop
drwxr-xr-x 2 sarahmohamed sarahmohamed 16 Aug 1 14:00 doc3
drwxr-xr-x 2 sarahmohamed sarahmohamed 284 Aug 1 14:00 Documents
drwxr-xr-x 1 sarahmohamed sarahmohamed 4 Aug 2 01:25 ff
-rw-r--r-- 1 sarahmohamed sarahmohamed 10880492 Jul 25 06:13 google-chrome-stable_current_x86_64.rpm
-rw-r--r-- 1 sarahmohamed sarahmohamed 8 Aug 2 01:27 hhh
-rw-r--r-- 1 sarahmohamed sarahmohamed 8 Aug 2 01:27 kkk
-rw-r--r-- 1 sarahmohamed sarahmohamed 8 Aug 2 01:28 lll
drwxr-xr-x 2 sarahmohamed sarahmohamed 8 Aug 1 14:00 Mjll
-rw-r--r-- 1 sarahmohamed sarahmohamed 8 Aug 2 01:28 myteam
-rw-r--r-- 1 sarahmohamed sarahmohamed 6471 Aug 2 01:00 myteam
drwxr-xr-x 2 sarahmohamed sarahmohamed 16 Aug 1 14:00 old3
drwxr-xr-x 2 sarahmohamed sarahmohamed 4096 Aug 1 11:53 Pictures
drwxr-xr-x 2 sarahmohamed sarahmohamed 8 Aug 1 14:00 public
drwxr-xr-x 2 sarahmohamed sarahmohamed 8 Aug 2 01:25 sss
drwxr-xr-x 2 sarahmohamed sarahmohamed 8 Aug 1 14:00 Templates
drwxr-xr-x 2 sarahmohamed sarahmohamed 8 Aug 1 14:00 Videos
sarahmohamed@localhost:~$
```

The screenshot shows a terminal window titled 'sarahmohamed : bash - Konsole'. The user has executed 'chmod 631 oldpasswd' and 'ls -l oldpasswd'. The output shows the file 'oldpasswd' with permissions '-rw-r--r--'. Then, the user executed 'ls -l', showing a list of files and directories with their permissions, owners, groups, sizes, and timestamps. The file 'myteam' is visible in the list.

- Change your default permissions to be as above.



The screenshot shows a terminal window titled 'sarahmohamed : bash - Konsole'. The window has a menu bar with 'File', 'Edit', 'View', 'Bookmarks', 'Settings', and 'Help'. The terminal content shows the user 'sarahmohamed@localhost' at the prompt, followed by the command 'umask 146' and a cursor on the next line. The window's title bar indicates it is running on 'en' at 'Wed 12:08'.

- What is the maximum permission a file can have, by default when it is just created? And what is that for directory.

**File => 666      Directory => 777**

- Change your default permissions to be no permission to everyone then create a directory and a file to verify.

```
Applications Places sarahmohamed: bash - Konsole
en Wed 12:10
-
[File Edit View Bookmarks Settings Help]
sarahmohamed@localhost: ~$ umask 035
sarahmohamed@localhost: ~$ umask 140
sarahmohamed@localhost: ~$ umask 777
sarahmohamed@localhost: ~$ mkdir dir1
sarahmohamed@localhost: ~$ touch file1
sarahmohamed@localhost: ~$ ls -l
total 98512
drwxr-xr-x. 1 sarahmohamed sarahmohamed 0 Aug 2 12:06 .
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 1 14:00 Desktop
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 2 12:09 dir1
drwxr-xr-x. 2 sarahmohamed sarahmohamed 10 Aug 2 00:48 docs
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 1 14:00 documents
drwxr-xr-x. 2 sarahmohamed sarahmohamed 204 Aug 2 11:46 Downloads
-rw-r--r--. 1 sarahmohamed sarahmohamed 0 Aug 2 01:26 fff
-rw-r--r--. 1 sarahmohamed sarahmohamed 0 Aug 2 12:10 file1
-rw-r--r--. 1 sarahmohamed sarahmohamed 108865892 Jul 25 06:13 google-chrome-stable_current_x86_64.rpm
-rw-r--r--. 1 sarahmohamed sarahmohamed 0 Aug 2 01:27 kkk
-rw-r--r--. 1 sarahmohamed sarahmohamed 0 Aug 2 01:27 kkk
-rw-r--r--. 1 sarahmohamed sarahmohamed 0 Aug 2 01:28 llll
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 2 12:05 llll
-rw-r--r--. 1 sarahmohamed sarahmohamed 0 Aug 2 12:07 mmm
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 1 14:00 Music
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 2 00:49 myteam
-rw-r--r--. 1 sarahmohamed sarahmohamed 3471 Aug 2 01:08 pictures
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 1 14:00 perl5
drwxr-xr-x. 2 sarahmohamed sarahmohamed 409 Aug 2 12:06 pictures
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 1 14:00 Public
-rw-r--r--. 1 sarahmohamed sarahmohamed 0 Aug 2 01:25 sss
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 2 01:25 sss
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 1 14:00 Templates
drwxr-xr-x. 2 sarahmohamed sarahmohamed 0 Aug 1 14:00 videos
sarahmohamed@localhost: ~$
```

- Modify a file content

=> W

18. Create a file with permission 444. Try to edit in it and to remove it?  
Note what happened.

```

[sarah@localhost ~]$ touch file
[sarah@localhost ~]$ rm file
rm: remove write-protected regular empty file 'file'? y
[sarah@localhost ~]$ ls -l
total 80
drwxr-xr-x. 2 sarah sarah 4096 Aug 1 14:00 Desktop
drwxr-xr-x. 2 sarah sarah 4096 Aug 1 14:00 Downloads
drwxr-xr-x. 3 sarah sarah 4096 Aug 1 14:00 Music
drwxr-xr-x. 2 sarah sarah 4096 Aug 1 14:00 Pictures
drwxr-xr-x. 2 sarah sarah 4096 Aug 1 14:00 Public
drwxr-xr-x. 2 sarah sarah 4096 Aug 1 14:00 Templates
drwxr-xr-x. 2 sarah sarah 4096 Aug 1 14:00 Videos

```

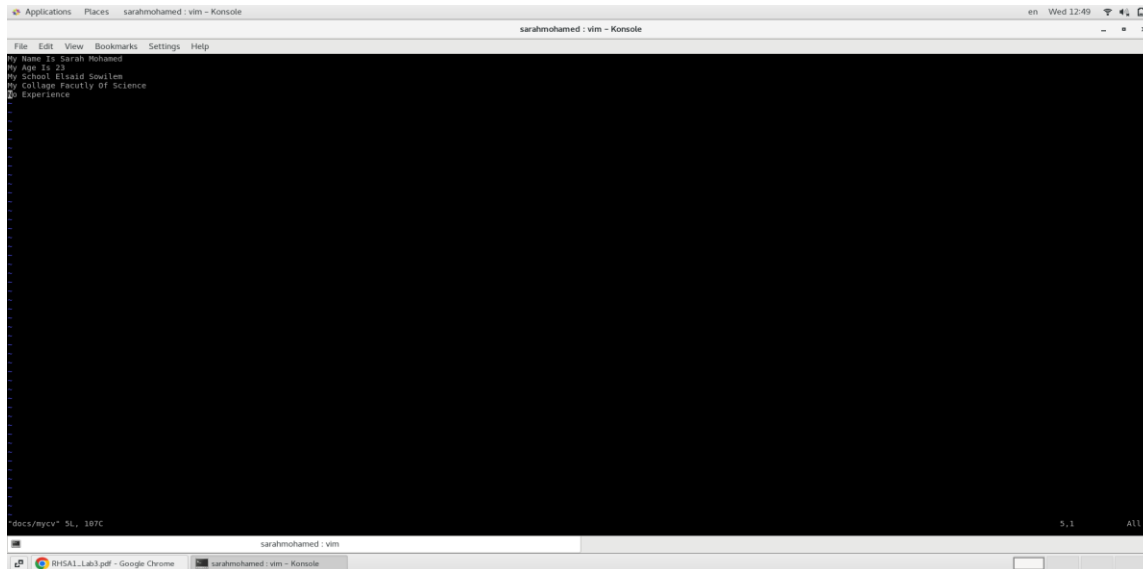
19. What is the difference between the “x” permission for a file and for a

directory?

=> For a file, the "x" permission allows the user to execute the file if it is a script or a binary executable. For a directory, the "x" permission allows the user to access the contents of the directory

## Lab 3

1. Using vi write your CV in the file mycv. Your CV should include your name, age, school, college, experience,...



2. Open mycv file using vi command then: Without using arrows state how to:

a. Move the cursor down one line at time.

=> J

b. Move the cursor up one line at time.

=> K

c. Search for word age

=> /age

d. Step to line 5 (assuming that you are in line 1 and file is more than 5 lines).

=> :5

e. Delete the line you are on and line 5.

=> dd For Line I am on , :5d For Line 5

=> Go To Line And Enter Shift+ a

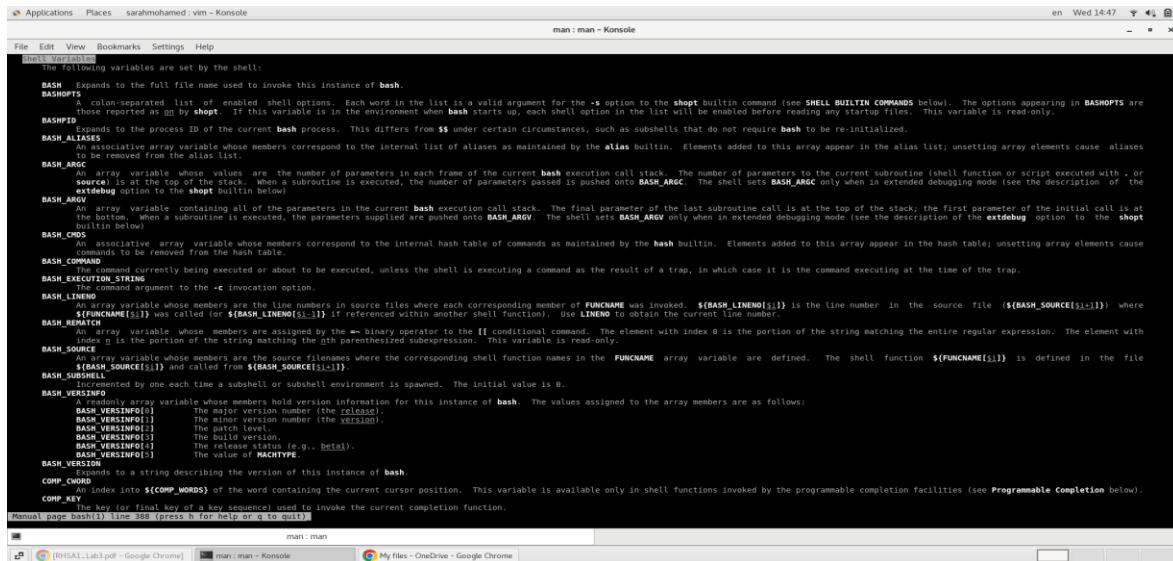
[illegible]

4.  
List  
the

[illegible]

5.  
List  
all  
of  
the

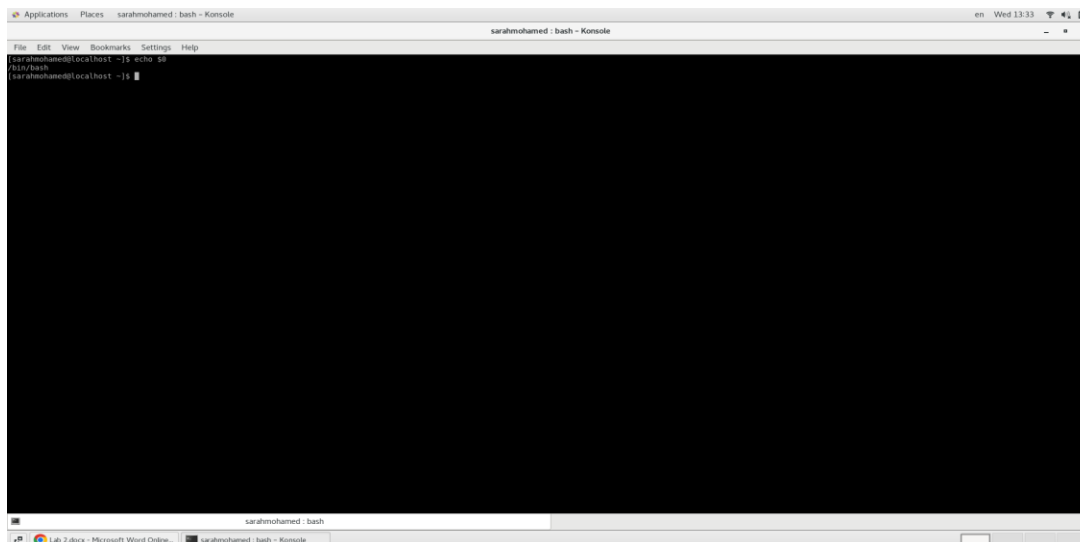
environment variables for the bash shell.



6. What are the commands that list the value of a specific variable?

=> echo \$var

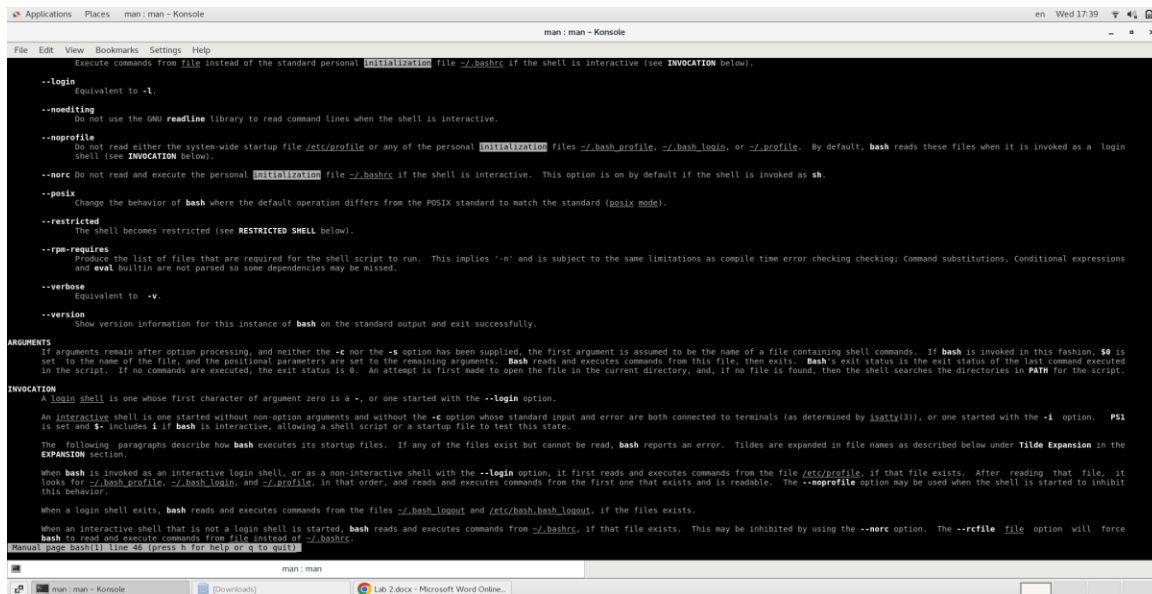
7. Display your current shell name



8.  
State  
the

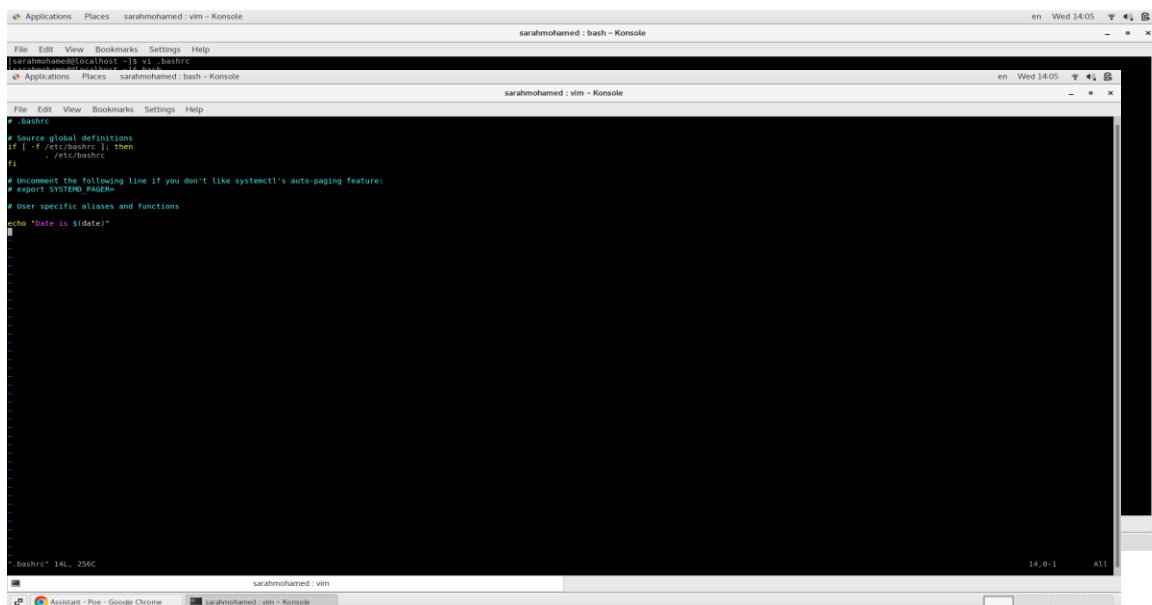
initialization files of: sh, ksh, bash.





- sh: /etc/profile, ~/.profile
- ksh: /etc/profile, ~/.profile, ~/.kshrc
- bash: /etc/profile, ~/.bash\_profile, ~/.bash\_login, ~/.profile, ~/.bashrc

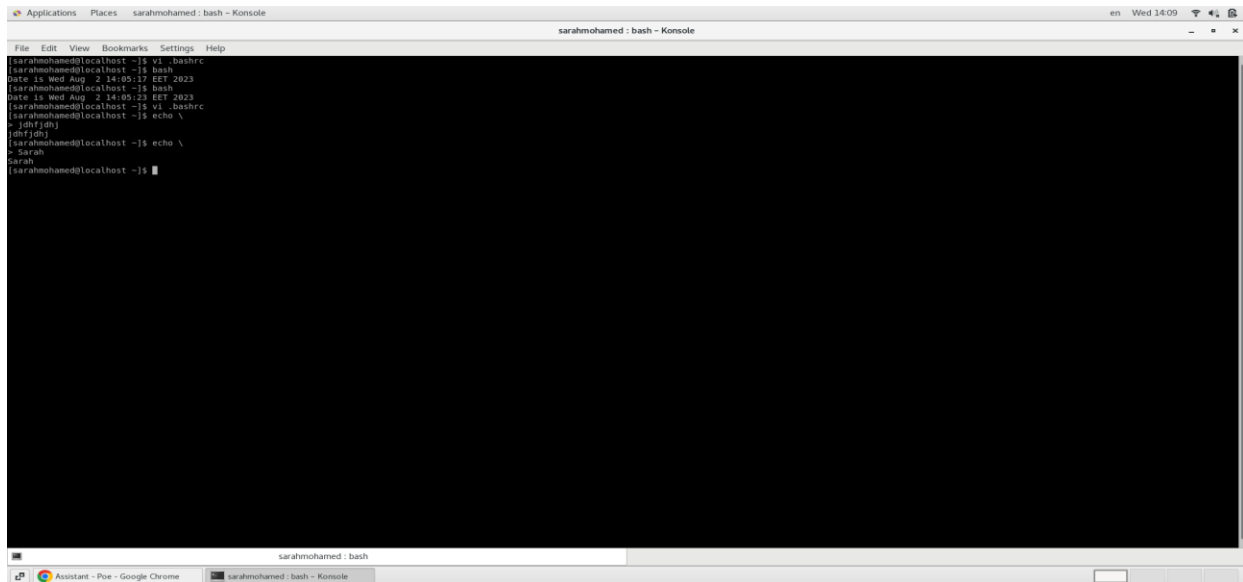
## 9. Edit in your profile to display date at login and change your prompt permanently.



## 10. Execute the following command : echo \ then press enter

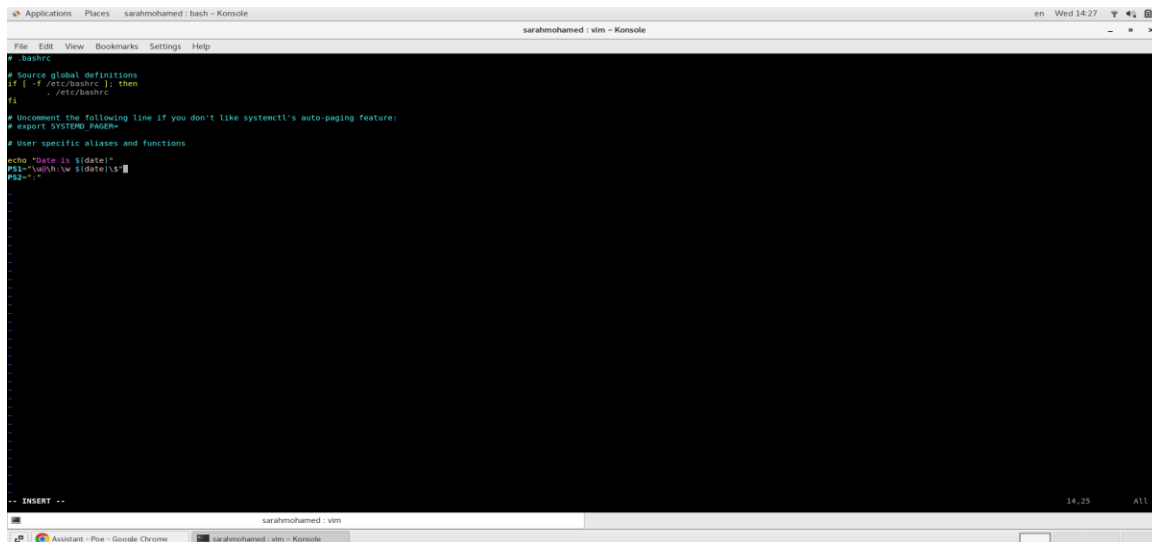
# What is the purpose of \ ?

=> echo \ => Escape NewLine



```
Applications  Places  sarahmohamed : bash - Konsole
sarahmohamed : bash - Konsole
[sarahmohamed@localhost ~]$ vi .bashrc
[sarahmohamed@localhost ~]$ bash
Date is Wed Aug 2 14:05:17 EET 2023
[sarahmohamed@localhost ~]$ bash
Date is Wed Aug 2 14:05:23 EET 2023
[sarahmohamed@localhost ~]$ vi .bashrc
[sarahmohamed@localhost ~]$ echo \
> jdhfjdhj
[sarahmohamed@localhost ~]$ echo \
> Sarah
Sarah
[sarahmohamed@localhost ~]$
```

Notice the prompt ">" what is that? and how can you change it from ">" to ":".

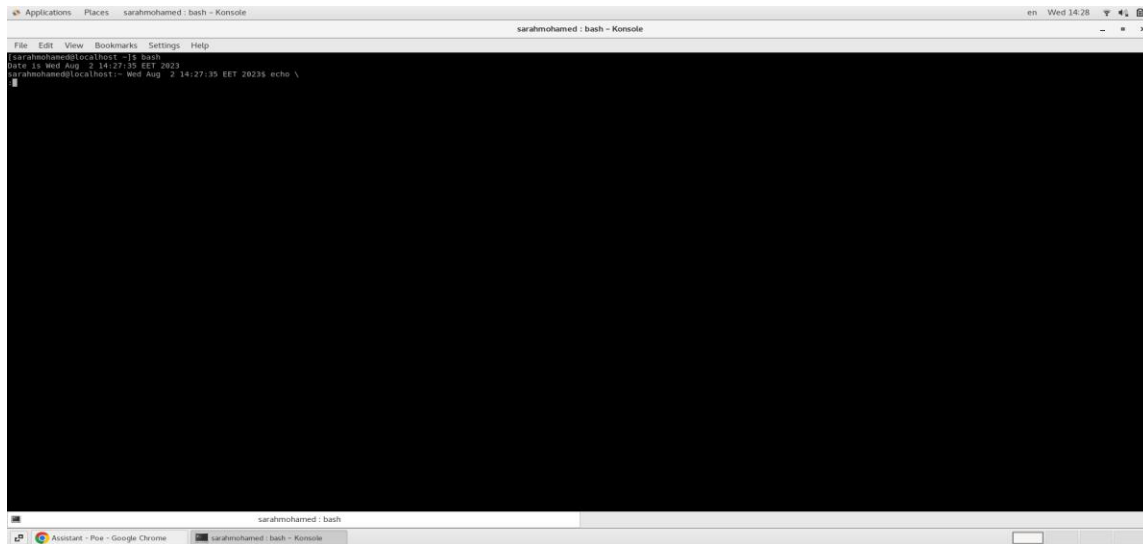


```
Applications  Places  sarahmohamed : bash - Konsole
sarahmohamed : vim - Konsole
# .bashrc
# Source global definitions
if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi

# Uncomment the following line if you don't like systemctl's auto-paging feature:
# export SYSTEMD_PAGER=

# User specific aliases and functions
echo "Date is $(date)"
PS1="\u@h:\w $(date)\$ "
PS2=">"

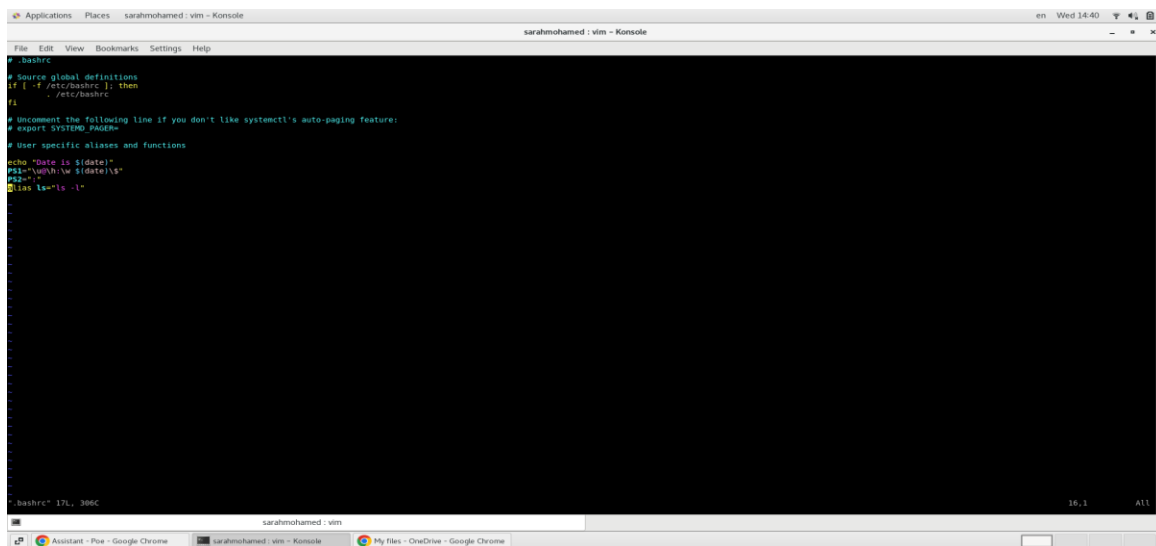
-- INSERT --
14,25 All
```



A terminal window titled "sarahmohamed : bash - Konsole". The window shows a Bash shell session with the following commands and output:

```
sarahmohamed@localhost:~$ ls
data
sarahmohamed@localhost:~$ date
Wed Aug 2 14:27:35 EET 2023
sarahmohamed@localhost:~$ echo \
```

11. Create a Bash shell alias named `ls` for the “`ls -l`” command



A terminal window titled "sarahmohamed : vim - Konsole" showing the contents of the `.bashrc` file. The file contains the following text:

```
# .bashrc

# Source global definitions
if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi

# Uncomment the following line if you don't like systemctl's auto-paging feature:
# export SYSTEMD_PAGER=

# User specific aliases and functions

echo "date is $(date)"
PS1="\u@\h:\w $(date)\$"
PROMPT_COMMAND="echo -n $(date)"
alias ls="ls -l"

# .bashrc" 17L, 396C
```

