

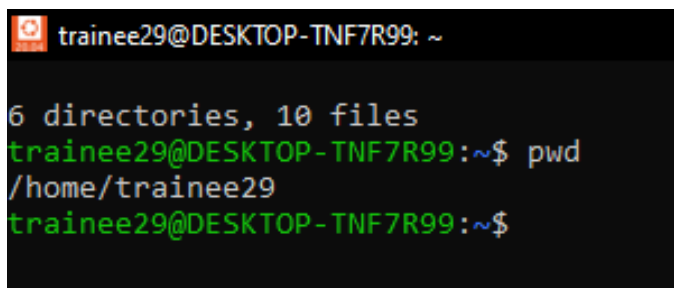
Commands Utilities

This assignment expects the participant to identify specific command(s) OR perform the given action using one or commands as per the given question. You are requested to maintain the answers (i.e command(s) as per given question) for all questions below.

Mandatory Questions

1. Which command is used to know the current working directory?

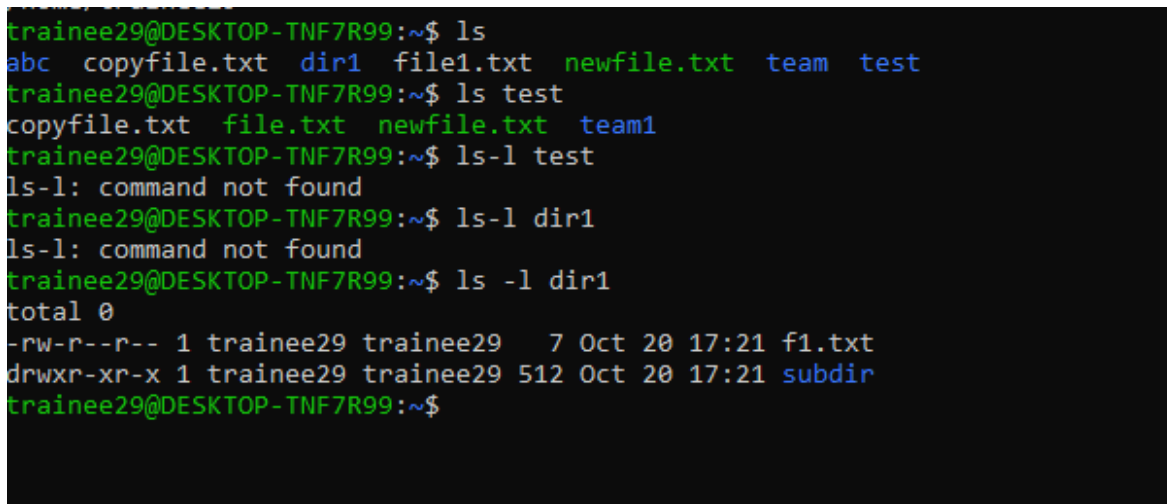
Ans : The pwd command that is abbreviation for the present working directory is used to know the current working directory. It display current working directory full path and name.

A terminal window with a dark background. The prompt is 'trainee29@DESKTOP-TNF7R99: ~'. The first line shows '6 directories, 10 files'. The second line shows the command 'pwd' being entered. The third line shows the output '/home/trainee29'. The prompt is then shown again.

```
trainee29@DESKTOP-TNF7R99: ~  
6 directories, 10 files  
trainee29@DESKTOP-TNF7R99:~$ pwd  
/home/trainee29  
trainee29@DESKTOP-TNF7R99:~$
```

2. How would you find out its contents?

Ans : The pwd command that is abbreviation for the present working directory is used to know the current working directory. It display current working directory full path and name. To display information about a particular file or directory, specify the name with ls command. To display long listing information use -l option.

A terminal window with a dark background. The prompt is 'trainee29@DESKTOP-TNF7R99:~\$'. The first line shows the command 'ls' being entered. The second line shows the output 'abc copyfile.txt dir1 file1.txt newfile.txt team test'. The prompt is then shown again. The third line shows the command 'ls test' being entered. The fourth line shows the output 'copyfile.txt file.txt newfile.txt team1'. The prompt is then shown again. The fifth line shows the command 'ls-l test' being entered. The sixth line shows the output 'ls-l: command not found'. The prompt is then shown again. The seventh line shows the command 'ls-l dir1' being entered. The eighth line shows the output 'ls-l: command not found'. The prompt is then shown again. The ninth line shows the command 'ls -l dir1' being entered. The tenth line shows the output 'total 0'. The eleventh line shows the output '-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 17:21 f1.txt'. The twelfth line shows the output 'drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 subdir'. The prompt is then shown again.

```
trainee29@DESKTOP-TNF7R99:~$ ls  
abc copyfile.txt dir1 file1.txt newfile.txt team test  
trainee29@DESKTOP-TNF7R99:~$ ls test  
copyfile.txt file.txt newfile.txt team1  
trainee29@DESKTOP-TNF7R99:~$ ls-l test  
ls-l: command not found  
trainee29@DESKTOP-TNF7R99:~$ ls-l dir1  
ls-l: command not found  
trainee29@DESKTOP-TNF7R99:~$ ls -l dir1  
total 0  
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 17:21 f1.txt  
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 subdir  
trainee29@DESKTOP-TNF7R99:~$
```

3. Identify the commands with inputs to do the following

a. create a directory d1

Ans : Use mkdir command . It creates a new directory.

b. create a subdirectory d2 in d1

Ans : Use mkdir command. It creates a new directory .

c. change to directory d2

Ans : Use cd command . It changes current working directory.

d. create an empty file "f1.txt"

Ans : The touch command is used to create a file without any content

e. display the contents of "f1.txt"

Ans : Use cat command . It displays file contents on screen.

f. view the contents of d1 from current directory d2

Ans: Use command \$ ls ~/d1

```
trainee29@DESKTOP-TNF7R99:~$ mkdir d1
trainee29@DESKTOP-TNF7R99:~$ cd d1
trainee29@DESKTOP-TNF7R99:~/d1$ mkdir d2
trainee29@DESKTOP-TNF7R99:~/d1$ cd d2
trainee29@DESKTOP-TNF7R99:~/d1/d2$ touch f1
trainee29@DESKTOP-TNF7R99:~/d1/d2$ cat f1
trainee29@DESKTOP-TNF7R99:~/d1/d2$ ls ~/d1
d2
trainee29@DESKTOP-TNF7R99:~/d1/d2$
```

4. Use the ls command with its options. How will you identify directories from the listing?

The ls command is used to display the contents of a directory .

Options of ls command :

a. -l option : To display long listing information

b. -a option: list all files including hidden file starting with '.'

c. -i option : list file's inode index number

- d. -s option: list file size
- e. -S option: sort by file size
- f. -r option: list in reverse order

```
trainee29@DESKTOP-TNF7R99:~$ ls -l dir1
total 0
-rw-r--r-- 1 trainee29 trainee29  7 Oct 20 17:21 f1.txt
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 subdir
trainee29@DESKTOP-TNF7R99:~$ ls -a dir1
.  ..  f1.txt  subdir
trainee29@DESKTOP-TNF7R99:~$ ls -la dir1
total 0
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 .
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 20:16 ..
-rw-r--r-- 1 trainee29 trainee29  7 Oct 20 17:21 f1.txt
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 subdir
trainee29@DESKTOP-TNF7R99:~$ ls -li dir1
total 0
10977524092041664 -rw-r--r-- 1 trainee29 trainee29  7 Oct 20 17:21 f1.txt
14918173765675310 drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 subdir
trainee29@DESKTOP-TNF7R99:~$ ls -ls dir1
total 0
0 -rw-r--r-- 1 trainee29 trainee29  7 Oct 20 17:21 f1.txt
0 drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 subdir
trainee29@DESKTOP-TNF7R99:~$ ls -lS dir1
total 0
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 subdir
-rw-r--r-- 1 trainee29 trainee29  7 Oct 20 17:21 f1.txt
```

5. Use ls to do the following
- a. List files with single character names.

```
trainee29@DESKTOP-TNF7R99:~$ cat>A
^Z
[1]+  Stopped                  cat > A
trainee29@DESKTOP-TNF7R99:~$ cat>F
^Z
[2]+  Stopped                  cat > F
trainee29@DESKTOP-TNF7R99:~$ ls -l?
ls: invalid option -- '?'
Try 'ls --help' for more information.
trainee29@DESKTOP-TNF7R99:~$ ls -l ?
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:04 A
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:05 F
trainee29@DESKTOP-TNF7R99:~$ cat>1
^Z
[3]+  Stopped                  cat > 1
trainee29@DESKTOP-TNF7R99:~$ ls -l ?
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:06 1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:04 A
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:05 F
trainee29@DESKTOP-TNF7R99:~$
```

b. List hidden files also. [Note : Hidden files are files having name started with a "."]

```
trainee29@DESKTOP-TNF7R99:~$ ls -la
total 8
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 21:06 .
drwxr-xr-x 1 root      root      512 Oct 20 12:44 ..
-rw----- 1 trainee29 trainee29 328 Oct 20 12:16 .bash_history
-rw-r--r-- 1 trainee29 trainee29 220 Oct 20 10:43 .bash_logout
-rw-r--r-- 1 trainee29 trainee29 3771 Oct 20 10:43 .bashrc
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 10:43 .landscape
-rw----- 1 trainee29 trainee29 28 Oct 20 11:41 .lessht
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 10:43 .motd_shown
-rw-r--r-- 1 trainee29 trainee29 807 Oct 20 10:43 .profile
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 12:31 .sudo_as_admin_successful
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:06 1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:04 A
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:05 F
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 12:59 abc
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 14:46 copyfile.txt
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 20:16 d1
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 dir1
-r--r--r-- 1 trainee29 trainee29 20 Oct 20 16:31 file1.txt
-rwxr-xr-x 1 trainee29 trainee29 0 Oct 20 14:47 newfile.txt
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 11:34 team
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 15:12 test
```

c. Suppose there are files tb1.1, tb2.1, tb3.1,tb10.1. Write command to list all the files [Hint: use wild card characters]

```
trainee29@DESKTOP-TNF7R99:~$ mkdir dir2
trainee29@DESKTOP-TNF7R99:~$ cd dir2
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb1.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb2.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb3.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb4.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb5.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb6.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb7.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb8.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb9.1
trainee29@DESKTOP-TNF7R99:~/dir2$ touch tb10.1
trainee29@DESKTOP-TNF7R99:~/dir2$ ls -l tb[0-9]*.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:34 tb1.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:35 tb10.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:34 tb2.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:34 tb3.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:34 tb4.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:34 tb5.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:35 tb6.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:35 tb7.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:35 tb8.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:35 tb9.1
```

6. Write the command to list all files in descending order of their size.

```
trainee29@DESKTOP-TNF7R99:~$ ls -laS
total 8
-rw-r--r-- 1 trainee29 trainee29 3771 Oct 20 10:43 .bashrc
-rw-r--r-- 1 trainee29 trainee29 807 Oct 20 10:43 .profile
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 21:21 .
drwxr-xr-x 1 root root 512 Oct 20 12:44 ..
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 10:43 .landscape
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 12:59 abc
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 20:16 d1
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 17:21 dir1
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 11:34 team
drwxr-xr-x 1 trainee29 trainee29 512 Oct 20 15:12 test
-rw-r--r-- 1 trainee29 trainee29 328 Oct 20 12:16 .bash_history
-rw-r--r-- 1 trainee29 trainee29 220 Oct 20 10:43 .bash_logout
-rw-r--r-- 1 trainee29 trainee29 28 Oct 20 11:41 .lessht
-r--r--r-- 1 trainee29 trainee29 20 Oct 20 16:31 file1.txt
-rw-r--r-- 1 trainee29 trainee29 8 Oct 20 21:18 tb1.10.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:16 tb1.2.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:16 tb1.3.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:16 tb1.4.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:16 tb1.5.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:17 tb1.6.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:17 tb1.7.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:18 tb1.8.txt
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 21:18 tb1.9.txt
-rw-r--r-- 1 trainee29 trainee29 6 Oct 20 21:19 tb1.1
-rw-r--r-- 1 trainee29 trainee29 5 Oct 20 21:21 tb10.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:20 tb1.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:20 tb2.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:20 tb3.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:20 tb4.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:20 tb5.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:21 tb6.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:21 tb7.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:21 tb8.1.txt
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 21:21 tb9.1.txt
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 10:43 .motd_shown
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 12:31 .sudo_as_admin_successful
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:06 1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:04 A
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 21:05 F
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 14:46 copyfile.txt
-rwxr-xr-x 1 trainee29 trainee29 0 Oct 20 14:47 newfile.txt
```

7. Suppose there are files temp1, temp2, temp3. Write command to remove the files without listing them explicitly

Ans: rm command is used to remove files without listing them explicitly.

```
trainee29@DESKTOP-TNF7R99:~/team$ touch temp1
trainee29@DESKTOP-TNF7R99:~/team$ touch temp2
trainee29@DESKTOP-TNF7R99:~/team$ touch temp3
trainee29@DESKTOP-TNF7R99:~/team$ touch temp4
trainee29@DESKTOP-TNF7R99:~/team$ touch tp1
trainee29@DESKTOP-TNF7R99:~/team$ ls
temp1 temp2 temp3 temp4 tp1
trainee29@DESKTOP-TNF7R99:~/team$ rm temp*
trainee29@DESKTOP-TNF7R99:~/team$ ls
tp1
trainee29@DESKTOP-TNF7R99:~/team$
```

8. Which command is used to list top few lines in the file?

Ans: head command is used as it displays top few lines of a file.

```
trainee29@DESKTOP-TNF7R99:~/dir3$ cat > file1
hello
welcome to capgemini
i am annayasha paul
from kolkata
abstraction is pillar of oops
inheritance is feature by which one class is inherit the feature of another class
polymorphism is done one work in many ways
encapsulation is wrapping all the data together in single unit
OOPs, this all the features
^Z
[5]+  Stopped                  cat > file1
trainee29@DESKTOP-TNF7R99:~/dir3$ head file1
hello
welcome to capgemini
i am annayasha paul
from kolkata
abstraction is pillar of oops
inheritance is feature by which one class is inherit the feature of another class
polymorphism is done one work in many ways
encapsulation is wrapping all the data together in single unit
OOPs, this all the features
trainee29@DESKTOP-TNF7R99:~/dir3$ head -5 file1
hello
welcome to capgemini
i am annayasha paul
from kolkata
abstraction is pillar of oops
trainee29@DESKTOP-TNF7R99:~/dir3$
```

9. Create a directory “testdir”

```
trainee29@DESKTOP-TNF7R99:~$ mkdir testdir
trainee29@DESKTOP-TNF7R99:~$ ls -l testdir
total 0
trainee29@DESKTOP-TNF7R99:~$
```

10. Use cp command to do the following

a. Copy the file tb1.1 (created above) in the same directory.

```
trainee29@DESKTOP-TNF7R99:~/testdir$ cat>tb1.1
hello
capgemini
^Z
[7]+  Stopped                  cat > tb1.1
trainee29@DESKTOP-TNF7R99:~/testdir$ cp tb1.1 new_file
trainee29@DESKTOP-TNF7R99:~/testdir$ cat tb1.1
hello
capgemini
trainee29@DESKTOP-TNF7R99:~/testdir$ cat new_file
hello
capgemini
trainee29@DESKTOP-TNF7R99:~/testdir$
```


b. Write a command to copy all the files i.e tb1.1, tb2.1, tb3.1,tb10.1 in a new directory –“new”

```
trainee29@DESKTOP-TNF7R99:~/testdir$ ls
new_file tb1.1 tb10.1 tb2.1 tb3.1 tb4.1 tb5.1 tb6.1 tb7.1 tb8.1 tb9.1
trainee29@DESKTOP-TNF7R99:~/testdir$ mkdir ~/new
trainee29@DESKTOP-TNF7R99:~/testdir$ cp tb[0-9]*.1 ~/new
trainee29@DESKTOP-TNF7R99:~/testdir$ ls ~/new
tb1.1 tb10.1 tb2.1 tb3.1 tb4.1 tb5.1 tb6.1 tb7.1 tb8.1 tb9.1
trainee29@DESKTOP-TNF7R99:~/testdir$
```

c. Create a subdirectory in new in named “new1”.

```
trainee29@DESKTOP-TNF7R99:~/testdir$ mkdir ~/new/new1
trainee29@DESKTOP-TNF7R99:~/testdir$ ls ~/new
new1 tb1.1 tb10.1 tb2.1 tb3.1 tb4.1 tb5.1 tb6.1 tb7.1 tb8.1 tb9.1
trainee29@DESKTOP-TNF7R99:~/testdir$
```

d. Write a command to copy selectively only tb2.1, tb6.1, tb7.1 and tb10.1 in the directory new1.

```
trainee29@DESKTOP-TNF7R99:~$ ls new
new1 tb1.1 tb10.1 tb2.1 tb3.1 tb4.1 tb5.1 tb6.1 tb7.1 tb8.1 tb9.1
trainee29@DESKTOP-TNF7R99:~$ ls new/new1
trainee29@DESKTOP-TNF7R99:~$ cp new/tb[267].1 new/tb10.1 new/new1
trainee29@DESKTOP-TNF7R99:~$ ls new/new1
tb10.1 tb2.1 tb6.1 tb7.1
trainee29@DESKTOP-TNF7R99:~$
```

e. Write a command to copy the entire directory “new” to a directory “newprogs”. [Note : use the -R option of “cp” command]

```
trainee29@DESKTOP-TNF7R99:~$ ls new
new1 tb1.1 tb10.1 tb2.1 tb3.1 tb4.1 tb5.1 tb6.1 tb7.1 tb8.1 tb9.1
trainee29@DESKTOP-TNF7R99:~$ cp -R new newprogs
trainee29@DESKTOP-TNF7R99:~$ ls newprogs
new1 tb1.1 tb10.1 tb2.1 tb3.1 tb4.1 tb5.1 tb6.1 tb7.1 tb8.1 tb9.1
trainee29@DESKTOP-TNF7R99:~$
```

12. Use a single command rmdir once to remove “testdir” and all its sub directories and files created above..

Ans: rmdir works only on empty directories and hence will not work for a non-empty directory “testdir”. We need to use rm -r testdir for this purpose.

```

trainee29@DESKTOP-TNF7R99:~$ ls -l testdir
total 0
-rw-r--r-- 1 trainee29 trainee29 16 Oct 20 22:03 new_file
-rw-r--r-- 1 trainee29 trainee29 16 Oct 20 22:02 tb1.1
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 22:05 tb10.1
-rw-r--r-- 1 trainee29 trainee29 3 Oct 20 22:04 tb2.1
-rw-r--r-- 1 trainee29 trainee29 3 Oct 20 22:04 tb3.1
-rw-r--r-- 1 trainee29 trainee29 5 Oct 20 22:05 tb4.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 22:05 tb5.1
-rw-r--r-- 1 trainee29 trainee29 5 Oct 20 22:05 tb6.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 22:05 tb7.1
-rw-r--r-- 1 trainee29 trainee29 6 Oct 20 22:05 tb8.1
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 22:05 tb9.1
trainee29@DESKTOP-TNF7R99:~$ touch testdir/file
trainee29@DESKTOP-TNF7R99:~$ ls -l testdir
total 0
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 22:15 file
-rw-r--r-- 1 trainee29 trainee29 16 Oct 20 22:03 new_file
-rw-r--r-- 1 trainee29 trainee29 16 Oct 20 22:02 tb1.1
-rw-r--r-- 1 trainee29 trainee29 4 Oct 20 22:05 tb10.1
-rw-r--r-- 1 trainee29 trainee29 3 Oct 20 22:04 tb2.1
-rw-r--r-- 1 trainee29 trainee29 3 Oct 20 22:04 tb3.1
-rw-r--r-- 1 trainee29 trainee29 5 Oct 20 22:05 tb4.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 22:05 tb5.1
-rw-r--r-- 1 trainee29 trainee29 5 Oct 20 22:05 tb6.1
-rw-r--r-- 1 trainee29 trainee29 0 Oct 20 22:05 tb7.1
-rw-r--r-- 1 trainee29 trainee29 6 Oct 20 22:05 tb8.1
-rw-r--r-- 1 trainee29 trainee29 7 Oct 20 22:05 tb9.1
trainee29@DESKTOP-TNF7R99:~$ rm -r testdir
trainee29@DESKTOP-TNF7R99:~$ ls -l testdir
ls: cannot access 'testdir': No such file or directory
trainee29@DESKTOP-TNF7R99:~$

```

13. Which command is used to get the manual information of a command?

```

PWD(1)                                User Commands                                PWD(1)
NAME
  pwd - print name of current/working directory
SYNOPSIS
  pwd [OPTION]...
DESCRIPTION
  Print the full filename of the current working directory.
  -L, --logical
      use PWD from environment, even if it contains symlinks
  -P, --physical
      avoid all symlinks
  --help display this help and exit
  --version
      output version information and exit
  If no option is specified, -P is assumed.
  NOTE: your shell may have its own version of pwd, which usually supersedes the version described here. Please refer to your shell's documentation for details about the options it supports.
AUTHOR
  Written by Jim Meyering.
REPORTING BUGS
  GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
  Report pwd translation bugs to <https://translationproject.org/team/>
COPYRIGHT
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  This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.
SEE ALSO
  getcwd(3)
  Full documentation at: <https://www.gnu.org/software/coreutils/pwd>
  or available locally via: info '(coreutils) pwd invocation'
  Manual page pwd(1) line 1 (press h for help or q to quit)

```


14. If you are not able to change to a directory what could be the likely cause?

Ans: If we are not able to change to a directory then the possible causes may be :

Either the directory might not be present or we might not have the access permission to the destination directory.

15. Explain the differences among the following commands:

a. `cd /`

It changes the current working directory to the entire system's root directory.

b. `cd ..`

It changes the current working directory to its parent directory.

c. `cd`

It changes the current working directory to the home(login) directory in linux.

e. `cd ../../`

It changes the current working directory to two parent directories backwards.

```
trainee29@DESKTOP-TNF7R99:~$ cd dir1
trainee29@DESKTOP-TNF7R99:~/dir1$ pwd
/home/trainee29/dir1
trainee29@DESKTOP-TNF7R99:~/dir1$ cd dir2
-bash: cd: dir2: No such file or directory
trainee29@DESKTOP-TNF7R99:~/dir1$ cd ..
trainee29@DESKTOP-TNF7R99:~$ cd /
trainee29@DESKTOP-TNF7R99:/$ pwd
/
trainee29@DESKTOP-TNF7R99:/$
```