1. Is: Lists files and directories in the current directory.

```
(taj © 222902066)-[~]

$ ls

Desktop image.png Pictures testfile1.txt testfile6.txt Videos

Documents lbfi Public testfile2.txt testfile7.txt

Downloads Music Templates testfile4.txt testfile8.txt

font.sh newdir testfile10.txt testfile5.txt testfile9.txt

(taj © 222902066)-[~]

$ \textstyle \t
```

2. Is -a: Lists all files, including hidden files (those starting with a dot).

```
—(taj⊛222902066)-[~]
 —$ ls −a
                                  Pictures
                                                               testfile7.txt
                   .face
                                                               testfile8.txt
.bash_history
                                   .profile
                                                               testfile9.txt
.bash_logout
                                  Public
                                                               Videos
                                  .python_history
.bashrc
                                                               .viminfo
.bashrc.original .ICEauthority .sudo_as_admin_successful .vnc
          image.png Templates
.java testfile10.txt
lbfi testfile1 tyt
                  .java
lbfi
                                                               .wget-hsts
                                  testfile1.txt
                                                               .Xauthority
                                  testfile2.txt
                                                               .zshrc
Documents
                                  testfile4.txt
                                  testfile5.txt
                  newdir
                                  testfile6.txt
 ——(taj⊛ 222902066)–[~]
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```

3. Is -I: Displays a detailed list of files, including permissions, ownership, size, and modification date.

```
—(taj⊛222902<u>066)</u>–[~]
└_$ ls -l
total 6848
drwxr-xr-x 2 taj taj
                       4096 Sep 7 21:50 Desktop
drwxr-xr-x 2 taj taj
                       4096 Sep 7 21:50 Documents
                       4096 Sep 19 14:54 Downloads
drwxr-xr-x 4 taj taj
-rwxr-xr-x 1 taj taj
                       4169 Sep 9 00:30 font.sh
-rw-r--r-- 1 taj taj 152260 Sep 19 15:27 image.png
-rwxr-xr-x 1 taj taj 6807176 <u>Sep 9 00:33 lbfi</u>
drwxr-xr-x 2 taj taj
                       4096 Sep 7 21:50 Music
                       4096 Sep 18 14:20 newdir
drwxr-xr-x 2 taj taj
drwxr-xr-x 2 taj taj
                       4096 Sep 7 21:50 Pictures
                       4096 Sep 7 21:50 Public
drwxr-xr-x 2 taj taj
                       4096 Sep 7 21:50 Templates
drwxr-xr-x 2 taj taj
-rw-r--r-- 1 taj taj
                        0 Sep 19 15:30 testfile10.txt
-rw-r--r-- 1 taj taj
                         0 Sep 19 15:30 testfile1.txt
-rw-r--r-- 1 taj taj
                        13 Oct 5 08:48 testfile2.txt
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```

4. Is -Ih: Shows file sizes in a human-readable format (KB, MB, etc.) along with detailed information.

```
—(taj⊛222902066)-[~]
 └_$ ls —lh
total 6.7M
drwxr-xr-x 2 taj taj 4.0K Sep 7 21:50 Desktop
drwxr-xr-x 2 taj taj 4.0K Sep 7 21:50 Documents
drwxr-xr-x 4 taj taj 4.0K Sep 19 14:54 Downloads
-rwxr-xr-x 1 taj taj 4.1K Sep 9 00:30 font.sh
 -rw-r--r-- 1 taj taj 149K Sep 19 15:27 image.png
 -rwxr-xr-x 1 taj taj 6.5M Sep 9 00:33 lbfi
drwxr-xr-x 2 taj taj 4.0K Sep 7 21:50 Music
drwxr-xr-x 2 taj taj 4.0K Sep 18 14:20 newdir
drwxr-xr-x 2 taj taj 4.0K Sep 7 21:50 Pictures drwxr-xr-x 2 taj taj 4.0K Sep 7 21:50 Public drwxr-xr-x 2 taj taj 4.0K Sep 7 21:50 Templates
 -rw-r--r-- 1 taj taj 0 Sep 19 15:30 testfile10.txt
 -rw-r--r-- 1 taj taj
                             0 Sep 19 15:30 testfile1.txt
 -rw-r--r-- 1 taj taj
                            13 Oct 5 08:48 testfile2.txt
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```

5. Is -R: Lists files in all directories and subdirectories recursively.

```
–(taj⊛222902066)–[~]
└$ ls -R
           image.png Pictures
                                  testfile1.txt testfile6.txt Videos
Desktop
Documents lbfi Public
Downloads Music Templates
                                      testfile2.txt testfile7.txt
                                      testfile4.txt testfile8.txt
font.sh     newdir     testfile10.txt testfile5.txt testfile9.txt
./Desktop:
./Documents:
./Downloads:
cse310 google-chrome-stable_current_amd64.deb labreport1
./Downloads/cse310:
barry.txt example.png firstfile
                                    foo2
                                                           thirdfile
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```

6. Is -ltr: Displays files sorted by modification time, with the most recent last, in long format.

```
—(taj⊛222902066)-[~]
  └_$ ls -ltr
 total 6848
drwxr-xr-x 2 taj taj 4096 Sep 7 21:50 Videos drwxr-xr-x 2 taj taj 4096 Sep 7 21:50 Templates drwxr-xr-x 2 taj taj 4096 Sep 7 21:50 Public drwxr-xr-x 2 taj taj 4096 Sep 7 21:50 Pictures drwxr-xr-x 2 taj taj 4096 Sep 7 21:50 Music drwxr-xr-x 2 taj taj 4096 Sep 7 21:50 Documents drwxr-xr-x 2 taj taj 4096 Sep 7 21:50 Desktop -rwxr-xr-x 1 taj taj 4169 Sep 9 00:30 font.sh
                                       4096 Sep 7 21:50 Templates
                                       4096 Sep 7 21:50 Documents
  -rwxr-xr-x 1 taj taj 6807176 Sep 9 00:33 lbfi
 drwxr-xr-x 2 taj taj 4096 Sep 18 14:20 newdir
 drwxr-xr-x 4 taj taj
                                       4096 Sep 19 14:54 Downloads
 -rw-r--r-- 1 taj taj 152260 Sep 19 15:27 image.png
  -rw-r--r-- 1 taj taj          0 Sep 19 15:30 testfile9.txt
  -rw-r--r-- 1 taj taj
                                            0 Sep 19 15:30 testfile8.txt
                                                  ^ IIII ENG ⊕ de 🖢 9/14 AM 🗗
```

7. pwd: Prints the current working directory.

8. cd / : Changes to the root directory.

9. cd \sim : Changes to the home directory of the current user.

10. cd .. : Moves one directory up (to the parent directory).

11. cd /tmp : Changes to the `/tmp` directory.

```
| (taj ⊗ 222902066) - [/home] | (taj ⊗ 222902066) - [/tmp] | (taj ⊗ 222902066) | (taj ⊗ 222902066)
```

12. cd /usr/bin : Changes to the `/usr/bin` directory.

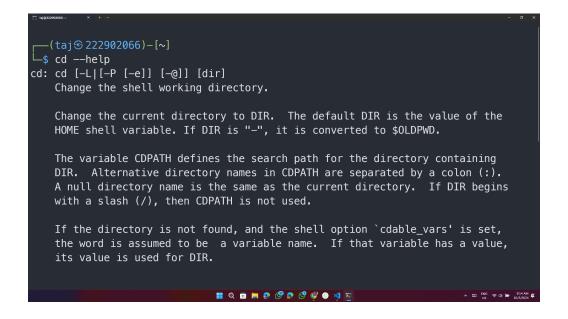
```
(taj ⊗ 222902066) - [/tmp]
$ cd /usr/bin

(taj ⊗ 222902066) - [/usr/bin]

$ \tag{222902066} \
```

13. cd -P: Changes directory without following symbolic links.

14. cd --help: Displays help information about the `cd` command.



15. mkdir testdir: Creates a directory named `testdir`.

16. mkdir -p testdir/testsubdir : Creates a directory and its parent directories if they do not exist.

17. mkdir -v newdir : Verbosely creates a directory, displaying the result.

```
(taj € 222902066)-[~]
$ mkdir -v newdir
mkdir: cannot create directory 'newdir': File exists

(taj € 222902066)-[~]
$ |
```

18. rmdir testdir/testsubdir : Removes the empty directory `testsubdir` from `testdir`.

```
(taj ⊕ 222902066) - [~]

$ rmdir testdir/testsubdir

(taj ⊕ 222902066) - [~]

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