Display All Information About Files/Directories Using ls -l
$ ls -l : To show long listing information about the file/directory.


```
maverick@maverick-Inspiron-5548:~$ ls -l
total 44892
-rw-rw-r--  1 maverick maverick     1176 Feb 16 00:19 1.c
-rwxrwxr-x  1 maverick maverick     9008 May 10 22:54 a.out
-rw-rw-r--  1 maverick maverick      484 Mar 29 22:18 ass8_1.c
-rw-rw-r--  1 maverick maverick    19920 Feb 16 00:20 binary.txt
-rw-rw-r--  1 maverick maverick       67 May 31 13:16 cfile.c
-rw-rw-r--  1 maverick maverick      187 May 31 13:21 c++file.cpp
-rw-rw-r--  1 maverick maverick     1552 May 31 13:37 cfile.o
-rwxrwxr-x  1 maverick maverick     8120 May 31 13:37 cfile.so
-rw-rw-r--  1 maverick maverick     1017 Feb 17 04:43 client.c
drwxr-xr-x  2 maverick maverick     4096 May 27 22:28 Desktop
drwxr-xr-x  2 maverick maverick     4096 Apr  2 04:11 Documents
drwxr-xr-x  2 maverick maverick     4096 May 31 13:12 Downloads
-rw-rw-r--  1 maverick maverick       54 Mar 29 22:23 end.txt
drwxrwxr-x 11 maverick maverick     4096 Nov 18  2016 Exam
-rw-r--r--  1 maverick maverick     8980 Nov  6  2016 examples.desktop
drwxr-xr-x  6 maverick maverick     4096 Nov 18  2016 FALCONN-1.2
-rw-rw-r--  1 maverick maverick      513 May 10 22:47 fifo1.c
-rw-rw-r--  1 maverick maverick      496 May 10 22:47 fifo2.c
-rw-rw-r--  1 maverick maverick      152 Jun  3 16:43 first.txt
-rw-r--r--  1 maverick maverick    10856 Nov 18  2016 glove.cc
-rw-rw-r--  1 maverick maverick 45750028 Nov  1  2016 google-chrome-stable_cur
nt_amd64.deb
```

-rw-rw-r– 1 maverick maverick 1176 Feb 16 00:19 1.c

1st Character – File Type: First character specifies the type of the file.
In the example above the hyphen (-) in the 1st character indicates that this is a normal file. Following are the possible file type options in the 1st character of the ls -l output.

Field Explanation
- – normal file
- d : directory
- s : socket file
- l : link file
- **Field 1 – File Permissions**: Next 9 character specifies the files permission. The every 3 characters specifies read, write, execute permissions for user(root), group and others respectively in order. Taking above example, -rw-rw-r– indicates read-write permission for user(root) , read permission for group, and no permission for others respectively. If all three permissions are given to user(root), group and others, the format looks like -rwxrwxrwx
- **Field 2 – Number of links**: Second field specifies the number of links for that file. In this example, 1 indicates only one link to this file.
- **Field 3 – Owner**: Third field specifies owner of the file. In this example, this file is owned by username 'maverick'.
- **Field 4 – Group**: Fourth field specifies the group of the file. In this example, this file belongs to "maverick' group.
- **Field 5 – Size**: Fifth field specifies the size of file in bytes. In this example, '1176' indicates the file size in bytes.

- **Field 6 – Last modified date and time**: Sixth field specifies the date and time of the last modification of the file. In this example, 'Feb 16 00:19' specifies the last modification time of the file.
- **Field 7 – File name**: The last field is the name of the file. In this example, the file name is 1.c.