Name Haris Roll no 23p-0573

```
[zenvila@zenvila ~]$ touch blankfile
[zenvila@zenvila ~]$ mkdir
                            blankdir
[zenvila@zenvila ~]$ ls
blankdir
          Documents Music
                               Public
                                          Videos
          Downloads
blankfile
                     MΥ
                               SEM4
Desktop
          main
                      Pictures
                               Templates
```

Here we first create a file with the name balankfile and also crete a directory with the name using mkdir (blankdir)

In the third command we just check its created or not to list all files and directories

```
[zenvila@zenvila ~]$ In blankdir dirpointer
In: blankdir: hard link not allowed for directory
[zenvila@zenvila ~]$ cd blankdir/
[zenvila@zenvila blankdir]$ ls
[zenvila@zenvila blankdir]$ In blankdir dirpointer
In: failed to access 'blankdir': No such file or directory
```

here when we try to create the hard link using the ln keyword it give an error it means we can not crete a link with directory

```
[zenvila@zenvila ~]$ ln -s blankdir dirpointer
[zenvila@zenvila ~]$ cat < blankfile
[zenvila@zenvila ~]$ cat < filepointer
-bash: filepointer: No such file or directory</pre>
```

here we use cat < blankfile to redirect the data that previous in the file and also cancatinate the filepointer using cat to redirect but there is nothing in these files like nothing to display.

```
[zenvila@zenvila ~]$ echo "Hello dear " > filepointer
[zenvila@zenvila ~]$ cat < blankfile
[zenvila@zenvila ~]$ cat < filepointer
Hello dear</pre>
```

Here we just echo "hello dear" and also redirect to the filepointer file. And then check the filepointer file using cat its shows an output same as .

```
[zenvila@zenvila ~]$ ls
blankdir
           dirpointer
                        filepointer
                                     MΥ
                                                SEM4
           Documents
blankfile
                        main
                                      Pictures
                                                Templates
Desktop
           Downloads
                        Music
                                      Public
                                                Videos
```

Here we list all.

```
[zenvila@zenvila ~]$ ls -lh

total 52K

drwxr-xr-x 2 zenvila zenvila 4.0K Feb 13 09:25 blankdir
-rw-r--r-- 1 zenvila zenvila 0 Feb 13 09:25 blankfile

drwxr-xr-x 2 zenvila zenvila 4.0K Feb 12 23:47 Desktop
lrwxrwxrwx 1 zenvila zenvila 8 Feb 13 09:28 dirpointer → blankdir

drwxr-xr-x 2 zenvila zenvila 4.0K Feb 12 19:11 Documents
drwxr-xr-x 2 zenvila zenvila 4.0K Feb 12 23:45 Downloads
```

Here we use commands ls -lh to display all softlinks and hardlinks . Etc and one main thing its also showa the size and tell how ponter files have.

```
[zenvila@zenvila ~]$ sudo pacman -S man-db man-pages --noconfirm warning: man-db-2.13.0-1 is up to date -- reinstalling warning: man-pages-6.10-1 is up to date -- reinstalling resolving dependencies...
looking for conflicting packages...

Packages (2) man-db-2.13.0-1 man-pages-6.10-1
```

Here I just install man from the man-db man-pages .

```
[zenvila@zenvila ~]$ ls /usr/bin
                                  -lh
                                        more
total 526M
-rwxr-xr-x 1 root root
                            47K Jan 19 00:17 [
-rwxr-xr-x 1 root root
                            43K Jun
                                     2
                                        2023 a52dec
                                        2024 abw2html
-rwxr-xr-x 1 root root
                            15K Jul
                                     3
                                     3
-rwxr-xr-x 1 root root
                            15K Jul
                                        2024 abw2raw
                                        2024 abw2text
-rwxr-xr-x 1 root root
                            15K Jul
                                     3
-rwxr-xr-x 2 root root
                            37K Jul 20
                                        2024 aclocal
-rwxr-xr-x 2 root root
                            37K Jul 20
                                        2024 aclocal-1.17
-rwxr-xr-x 1 root root
                            31K Aug 28 13:19 addftinfo
-rwxr-xr-x 1 root root
                           3.1K Nov 28 15:19 addgnupghome
                            15K Jan 14 01:02 addpart
-rwxr-xr-x 1 root root
                                     8 15:30 addr2line
                            27K Feb
-rwxr-xr-x 1 root root
-rwxr-xr-x 1 root root
                                     2 13:28 advtest
                            35K Nov
-rwxr-xr-x 1 root root
                           5.2K Jul
                                     3
                                        2024 affixcompress
-rwxr-xr-x 1 root root
                           164K Aug 28 13:19 afmtodit
```

Here this command ls with all the detail like all the file avalible in the /usr/bin .this help to show all file with the pointer means softlinks or hardlink.

```
[zenvila@zenvila ~]$ ls /usr/bin -lh | less
[zenvila@zenvila ~]$ █
```

Here we use the ls list all the files but with the less information of the files.

```
[zenvila@zenvila ~]$ find ~/ -name *.pdf
/home/zenvila/SEM4/OS_LAB/23P-0573_Harislab1.pdf
/home/zenvila/SEM4/PROB/solution-mannual-9th-edition-walpole.pdf
/home/zenvila/SEM4/PROB/Walpole, Ronald E._ Myers, Raymond H._ My
ers, Sharon L._ Ye, Keying - Probability & statistics for enginee
rs & scientists-Pearson (2017) (2).pdf
/home/zenvila/SEM4/PROB/Haris_23P-0573_BCS_4A.pdf
/home/zenvila/SEM4/OS_CLASS/OS outline-sp25.pdf
/home/zenvila/MY/Skills.pdf
/home/zenvila/MY/Personal-Statement.pdf
/home/zenvila/MY/Reference_Leter by Suleman Mir.pdf
/home/zenvila/MY/CV_Haris.pdf
/home/zenvila/MY/Haris_Resume.pdf
/home/zenvila/MY/Transcript.pdf
/home/zenvila/MY/generative-ai-roadmap-version-1.pdf
/home/zenvila/MY/Reference_Leter by Dr Bilal.pdf
[zenvila@zenvila ~]$
```

Here is the find command the help to find to like file with the command I find using the absolute path .

like file with the name and format. In this

```
[zenvila@zenvila ~]$ find . Desktop/ -name *.pdf
./SEM4/OS_LAB/23P-0573_Harislab1.pdf
./SEM4/PROB/solution-mannual-9th-edition-walpole.pdf
./SEM4/PROB/Walpole, Ronald E._ Myers, Raymond H._ Myers, Sharon
L._ Ye, Keying - Probability & statistics for engineers & scienti
sts-Pearson (2017) (2).pdf
./SEM4/PROB/Haris_23P-0573_BCS_4A.pdf
./SEM4/OS_CLASS/OS outline-sp25.pdf
./MY/Skills.pdf
./MY/Personal-Statement.pdf
./MY/Reference_Leter by Suleman Mir.pdf
./MY/CV_Haris.pdf
./MY/Haris_Resume.pdf
./MY/Transcript.pdf
./MY/generative-ai-roadmap-version-1.pdf
./MY/Reference_Leter by Dr Bilal.pdf
```

here I find all the pdf using relative path in the desktop dir while desktop is the current directory .

```
[zenvila@zenvila ~]$ sudo pacman -S plocate --noconfirm
```

Here first I install the plocate

```
[zenvila@zenvila ~]$ sudo updatedb
[zenvila@zenvila ~]$ locate *.txt
```

then I update the data base using sudo updatedb and then using loacte command I locate .txt files .

```
[zenvila@zenvila ~]$ gcc -03 first.c -o ok
[zenvila@zenvila ~]$ ./ok
Enter you name : H
Enter your age : 11
[zenvila@zenvila ~]$ ■
```