1. Write a command to display the current working directory.
   Command: pwd
   Output:

   ```
   aaryansh@LAPTOP-HGGFI3GM:~$ pwd
   /home/aaryansh
   aaryansh@LAPTOP-HGGFI3GM:~$
   ```

2. Write a command to display the current user which we are currently using.
   Command: whoami
   Output:

   ```
   aaryansh@LAPTOP-HGGFI3GM:~$ whoami
   aaryansh
   aaryansh@LAPTOP-HGGFI3GM:~$
   ```

3. Write a command to list the directories and files in current working directory.
   Command: ls
   Output:

   ```
   aaryansh@LAPTOP-HGGFI3GM:~$ ls
   Hello   hello.txt
   aaryansh@LAPTOP-HGGFI3GM:~$
   ```

4. Write a command to display your current working enviornment.
   Command: env
   Output:

   ```
   aaryansh@LAPTOP-HGGFI3GM:~$ env
   SHELL=/bin/bash
   WSL_DISTRO_NAME=Ubuntu
   NAME=LAPTOP-HGGFI3GM
   PWD=/home/aaryansh
   LOGNAME=aaryansh
   HOME=/home/aaryansh
   LANG=C.UTF-8
   WSL_INTEROP=/run/WSL/14_interop
   LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=
   37;44:ex=01;32:*.tar=01;31:*.tgz=01;31:*.arc=01;31:*.arj=01;31:*.taz=01;31:*.lha=01;31:*.lz4=01;31:*.lzh=01;31:*.lzma=01;31:*.tlz=01;31:*.txz=01;31:*.tzo=01
   ;31:*.t7z=01;31:*.zip=01;31:*.z=01;31:*.dz=01;31:*.gz=01;31:*.lrz=01;31:*.lz=01;31:*.lzo=01;31:*.xz=01;31:*.zst=01;31:*.tzst=01;31:*.bz2=01;31:*.bz=01;31:*.
   tbz=01;31:*.tbz2=01;31:*.tz=01;31:*.deb=01;31:*.rpm=01;31:*.jar=01;31:*.war=01;31:*.ear=01;31:*.sar=01;31:*.rar=01;31:*.alz=01;31:*.ace=01;31:*.zoo=01;31:*.
   cpio=01;31:*.7z=01;31:*.rz=01;31:*.cab=01;31:*.wim=01;31:*.swm=01;31:*.dwm=01;31:*.esd=01;31:*.jpg=01;35:*.jpeg=01;35:*.mjpg=01;35:*.mjpeg=01;35:*.gif=01;35
   :*.bmp=01;35:*.pbm=01;35:*.pgm=01;35:*.ppm=01;35:*.tga=01;35:*.xbm=01;35:*.xpm=01;35:*.tif=01;35:*.tiff=01;35:*.png=01;35:*.svg=01;35:*.svgz=01;35:*.mng=01;
   35:*.pcx=01;35:*.mov=01;35:*.mpg=01;35:*.mpeg=01;35:*.m2v=01;35:*.mkv=01;35:*.webm=01;35:*.webp=01;35:*.ogm=01;35:*.mp4=01;35:*.m4v=01;35:*.mp4v=01;35:*.vob
   =01;35:*.qt=01;35:*.nuv=01;35:*.wmv=01;35:*.asf=01;35:*.rm=01;35:*.rmvb=01;35:*.flc=01;35:*.avi=01;35:*.fli=01;35:*.flv=01;35:*.gl=01;35:*.dl=01;35:*.xcf=01
   ;35:*.xwd=01;35:*.yuv=01;35:*.cgm=01;35:*.emf=01;35:*.ogv=01;35:*.ogx=01;35:*.aac=00;36:*.au=00;36:*.flac=00;36:*.m4a=00;36:*.mid=00;36:*.midi=00;36:*.mka=0
   0;36:*.mp3=00;36:*.mpc=00;36:*.ogg=00;36:*.ra=00;36:*.wav=00;36:*.oga=00;36:*.opus=00;36:*.spx=00;36:*.xspf=00;36:
   LESSCLOSE=/usr/bin/lesspipe %s %s
   TERM=xterm-256color
   LESSOPEN=| /usr/bin/lesspipe %s
   USER=aaryansh
   SHLVL=1
   WSLENV=
   XDG_DATA_DIRS=/usr/local/share:/usr/share:/var/lib/snapd/desktop
   PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/usr/lib/wsl/lib:/mnt/c/Program Files/Common Files/Oracle/Java
   /javapath:/mnt/c/Python310/Scripts/:/mnt/c/Python310/:/mnt/c/Windows/system32:/mnt/c/Windows:/mnt/c/Windows/System32/Wbem:/mnt/c/Windows/System32/WindowsPow
   erShell/v1.0/:/mnt/c/Windows/System32/OpenSSH/:/mnt/c/Program Files (x86)/NVIDIA Corporation/PhysX/Common:/mnt/c/Program Files/NVIDIA Corporation/NVIDIA NvD
   LISR:/mnt/c/Program Files/nodejs/:/mnt/c/ProgramData/chocolatey/bin:/mnt/c/Program Files/Git/cmd:/mnt/c/WINDOWS/system32:/mnt/c/WINDOWS:/mnt/c/WINDOWS/Syste
   m32/Wbem:/mnt/c/WINDOWS/System32/WindowsPowerShell/v1.0/:/mnt/c/WINDOWS/System32/OpenSSH/:/mnt/c/Program Files/dotnet/:/mnt/c/Program Files/Git LFS:/mnt/c/U
   sers/aarya/AppData/Local/Microsoft/WindowsApps:/mnt/c/Users/aarya/AppData/Local/Programs/Microsoft VS Code/bin:/mnt/c/Users/aarya/AppData/Roaming/npm:/snap/
   bin
   HOSTTYPE=x86_64
   _=/usr/bin/env
   ```

5. Write a command to print the provided text.
   Command: echo "hello user"

Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ echo "hello user"
hello user
aaryansh@LAPTOP-HGGFI3GM:~$ |
```

6. Write a command to show history of all the executed commands.
   Commands: history
   Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ history
    1  pwd
    2  whoami
    3  ls
```

7. Write a command to change the password for current user.
   Command: passwd
   Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ passwd
Changing password for aaryansh.
Current password:
New password:
Retype new password:
You must choose a longer password.
New password: |
```

8. Write a command to change directory to base directory.
   Command: cd ~
   Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ cd Hello
aaryansh@LAPTOP-HGGFI3GM:~/Hello$ cd ~
aaryansh@LAPTOP-HGGFI3GM:~$ |
```

9. Write a command to change directory to parent directory.
   Command: cd ..
   Output:

```
aaryansh@LAPTOP-HGGFI3GM:~/Hello$ cd ~
aaryansh@LAPTOP-HGGFI3GM:~$ cd ..
aaryansh@LAPTOP-HGGFI3GM:/home$ |
```
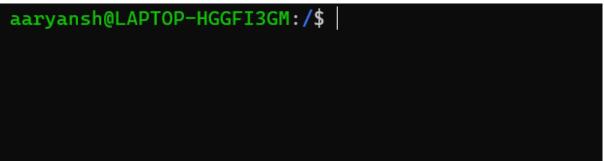
10. Write a command to change directory to root directory.
    Command: cd /
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:/home$ cd /
aaryansh@LAPTOP-HGGFI3GM:/$ |
```

11. Write a command to clear the screen.
    Command: clear

Output:
Before:

```
aaryansh@LAPTOP-HGGFI3GM:~$
aaryansh@LAPTOP-HGGFI3GM:~$ cd ~
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello  hello.txt
aaryansh@LAPTOP-HGGFI3GM:~$ cd Hello
aaryansh@LAPTOP-HGGFI3GM:~/Hello$ cd ~
aaryansh@LAPTOP-HGGFI3GM:~$ cd ..
aaryansh@LAPTOP-HGGFI3GM:/home$ cd/
-bash: cd/: No such file or directory
aaryansh@LAPTOP-HGGFI3GM:/home$ cd /
aaryansh@LAPTOP-HGGFI3GM:/$ clear
```

After:

```
aaryansh@LAPTOP-HGGFI3GM:/$
```

12. Write a command to make directory.
    Command : mkdir newfolder
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ mkdir newfolder
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello  hello.txt  newfolder
```

13. Write a command to rename the file/folder.
    Command: mv newfolder myfolder
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello  hello.txt  newfolder
aaryansh@LAPTOP-HGGFI3GM:~$ mv newfolder myfolder
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello  hello.txt  myfolder
aaryansh@LAPTOP-HGGFI3GM:~$
```

14. Write a command to move a file/folder.
    Command mv myfolder newfolder1

Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello   hello.txt   myfolder
aaryansh@LAPTOP-HGGFI3GM:~$ mkdir newfolder1
aaryansh@LAPTOP-HGGFI3GM:~$ mv myfolder newfolder1
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello   hello.txt   newfolder1
aaryansh@LAPTOP-HGGFI3GM:~$
```

```
aaryansh@LAPTOP-HGGFI3GM:~$ cd newfolder1
aaryansh@LAPTOP-HGGFI3GM:~/newfolder1$ ls
myfolder
aaryansh@LAPTOP-HGGFI3GM:~/newfolder1$
```

15. Write a command to display date.
    Command: date
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ date
Sun Jun  4 18:28:51 IST 2023
aaryansh@LAPTOP-HGGFI3GM:~$
```

16. Show different date styles using format specifiers
    Command: date %format specifier
    Output:
    +%D

```
aaryansh@LAPTOP-HGGFI3GM:~$ date "+%D"
06/04/23
```

+%D +%T

```
aaryansh@LAPTOP-HGGFI3GM:~$ date "+%D +%T"
06/04/23 +18:38:26
aaryansh@LAPTOP-HGGFI3GM:~$
```

+%y-%m-%d

```
aaryansh@LAPTOP-HGGFI3GM:~$ date "+%y-%m-%d"
23-06-04
```

+%y/%m/%d

```
aaryansh@LAPTOP-HGGFI3GM:~$ date "+%y/%m/%d"
23/06/04
```

+%A %B %D %T %Y

```
aaryansh@LAPTOP-HGGFI3GM:~$ date "+%A %B %D %T %Y"
Sunday June 06/04/23 18:39:50 2023
```

17. Write command to show the total, used, free, shared memory and swap.
Command: free
Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ free
              total        used        free      shared  buff/cache   available
Mem:        7038644       97360     6907060          68       34224     6796084
Swap:       2097152           0     2097152
aaryansh@LAPTOP-HGGFI3GM:~$
```

18. Write the command to show to only show the memory in different measurement units.
Command: free -unitspecifier (-b for byte -g for gigabyte -m for Megabyte)
Output:
-b

```
aaryansh@LAPTOP-HGGFI3GM:~$ free -b
              total        used        free      shared  buff/cache   available
Mem:       7207571456    99655680  7072296960       69632    35618816  6958977024
Swap:      2147483648           0  2147483648
```

-k

```
aaryansh@LAPTOP-HGGFI3GM:~$ free -k
              total        used        free      shared  buff/cache   available
Mem:        7038644       97328     6906532          68       34784     6795868
Swap:       2097152           0     2097152
aaryansh@LAPTOP-HGGFI3GM:~$
```

-m

```
aaryansh@LAPTOP-HGGFI3GM:~$ free -m
              total        used        free      shared  buff/cache   available
Mem:           6873          95        6744           0          33        6636
Swap:          2048           0        2048
aaryansh@LAPTOP-HGGFI3GM:~$
```

-g

```
aaryansh@LAPTOP-HGGFI3GM:~$ free -g
              total        used        free      shared  buff/cache   available
Mem:              6           0           6           0           0           6
Swap:             2           0           2
aaryansh@LAPTOP-HGGFI3GM:~$
```

19. Write a command to display the memory on regular interval
Command: free -s N (N is the time)
Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ free -s 3
              total        used        free      shared  buff/cache   available
Mem:        7038644       97272     6906484          68       34888     6795864
Swap:       2097152           0     2097152

              total        used        free      shared  buff/cache   available
Mem:        7038644       97216     6906540          68       34888     6795920
Swap:       2097152           0     2097152

              total        used        free      shared  buff/cache   available
Mem:        7038644       97216     6906540          68       34888     6795920
Swap:       2097152           0     2097152

^C
```

20. Write a command to change your directory to home directory
Command: cd

Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ cd Hello
aaryansh@LAPTOP-HGGFI3GM:~/Hello$ |
```

21. Write a command to change directory to /boot/grub/
    Command: cd /boot/
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~/Hello$ cd /boot/
aaryansh@LAPTOP-HGGFI3GM:/boot$ |
```

22. Write a command to go to parent directory
    Command: cd ..
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:/boot$ cd ..
aaryansh@LAPTOP-HGGFI3GM:/$ |
```

23. Write a command to go to root directory.
    Command: cd /
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:/media$ cd /
aaryansh@LAPTOP-HGGFI3GM:/$ |
```

24. Write a command to display the list of all the files and directory in the present
    directory.
    Command: ls
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:/$ ls
bin  boot  dev  etc  home  init  lib  lib32  lib64  libx32
aaryansh@LAPTOP-HGGFI3GM:/$ |
```

25. Write a command to show a long list of all the file and folders of the present working
    directory.
    Command: ls -l

Output:

```
aaryansh@LAPTOP-HGGFI3GM:/$ ls -l
total 1472
lrwxrwxrwx    1 root root        7 May  2 03:04 bin -> usr/bin
drwxr-xr-x    2 root root     4096 Apr 18  2022 boot
drwxr-xr-x    8 root root     2940 Jun  4 18:20 dev
drwxr-xr-x   73 root root     4096 Jun  4 18:20 etc
drwxr-xr-x    3 root root     4096 Jun  4 15:37 home
-rwxr-xr-x    2 root root  1440152 Jun  4 15:30 init
lrwxrwxrwx    1 root root        7 May  2 03:04 lib -> usr/lib
lrwxrwxrwx    1 root root        9 May  2 03:04 lib32 -> usr/lib32
lrwxrwxrwx    1 root root        9 May  2 03:04 lib64 -> usr/lib64
lrwxrwxrwx    1 root root       10 May  2 03:04 libx32 -> usr/libx32
drwx------    2 root root    16384 Apr 10  2019 lost+found
drwxr-xr-x    2 root root     4096 May  2 03:04 media
drwxr-xr-x    8 root root     4096 Jun  4 15:36 mnt
drwxr-xr-x    2 root root     4096 May  2 03:04 opt
dr-xr-xr-x  195 root root        0 Jun  4 18:20 proc
drwx------    2 root root     4096 May  2 03:05 root
drwxr-xr-x    6 root root      120 Jun  4 18:20 run
lrwxrwxrwx    1 root root        8 May  2 03:04 sbin -> usr/sbin
drwxr-xr-x    8 root root     4096 May  2 03:06 snap
drwxr-xr-x    2 root root     4096 May  2 03:04 srv
dr-xr-xr-x   11 root root        0 Jun  4 18:20 sys
drwxrwxrwt    2 root root     4096 May  2 03:05 tmp
drwxr-xr-x   14 root root     4096 May  2 03:04 usr
drwxr-xr-x   13 root root     4096 May  2 03:05 var
aaryansh@LAPTOP-HGGFI3GM:/$ 
```

26. Write a command to stay where you are and display contents of /etc.
    Command: ls /etc

Output:

```
aaryansh@LAPTOP-HGGFI3GM:/$ ls /etc
PackageKit                        cron.daily        groff
X11                               cron.hourly       group
adduser.conf                      cron.monthly      group-
alternatives                      cron.weekly       gshadow
apparmor                          crontab           gshadow-
apparmor.d                        dbus-1            gss
apport                            debconf.conf      hdparm.conf
apt                               debian_version    host.conf
bash.bashrc                       default           hostname
bash_completion                   deluser.conf      hosts
bash_completion.d                 depmod.d          init.d
bindresvport.blacklist            dhcp              inputrc
binfmt.d                          dpkg              iproute2
byobu                             e2scrub.conf      issue
ca-certificates                   environment       issue.net
ca-certificates.conf              ethertypes        kernel
ca-certificates.conf.dpkg-old     fstab             ld.so.cache
console-setup                     fuse.conf         ld.so.conf
cron.d                            gai.conf          ld.so.conf.d
aaryansh@LAPTOP-HGGFI3GM:/$
```

27. Write a command to stay where you are and display the contents of /bin and /sbin.
    Command: ls /bin /sbin

Output:

```
aaryansh@LAPTOP-HGGFI3GM:/$ ls /bin /sbin
/bin:
 NF                              fuser
 '['                             fusermount
 aa-enabled                      fusermount3
 aa-exec                         gapplication
 aa-features-abi                 gawk
 add-apt-repository              gdbus
 addpart                         geqn
 addr2line                       getconf
 apport-bug                      getent
 apport-cli                      getkeycodes
 apport-collect                  getopt
 apport-unpack                   gettext
 apropos                         gettext.sh
 apt                             ginstall-info
 apt-add-repository              gio
 apt-cache                       gio-querymodules
 apt-cdrom                       git
```

```
/sbin:
aa-remove-unknown        dhclient               getcap
aa-status                dhclient-script        getpcaps
aa-teardown              dmidecode              getty
accessdb                 dmsetup                groupadd
add-shell                dmstats                groupdel
addgnupghome             dosfsck                groupmems
addgroup                 dosfslabel             groupmod
adduser                  dpkg-preconfigure      grpck
agetty                   dpkg-reconfigure       grpconv
apparmor_parser          dumpe2fs               grpunconv
apparmor_status          e2freefrag             halt
applygnupgdefaults       e2fsck                 hdparm
arpd                     e2image                hwclock
arptables                e2label                iconvconfig
arptables-nft            e2mmpstatus            init
arptables-nft-restore    e2scrub                insmod
arptables-nft-save       e2scrub_all            installkernel
```

28. Write a command to display list of all files in human readable format.
    Command: ls -ah

Output:

```
aaryansh@LAPTOP-HGGFI3GM:/$ ls -ah
.  ..  bin  boot  dev  etc  home  init  lib  lib32
aaryansh@LAPTOP-HGGFI3GM:/$
```

29. Write a command to display files in /boot in long format and human readable format.
    Command: ls /boot -lh
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:/$ ls -lh
total 1.5M
lrwxrwxrwx   1 root root    7 May  2 03:04 bin -> usr/bin
drwxr-xr-x   2 root root 4.0K Apr 18  2022 boot
drwxr-xr-x   8 root root 2.9K Jun  4 18:20 dev
drwxr-xr-x  73 root root 4.0K Jun  4 18:20 etc
drwxr-xr-x   3 root root 4.0K Jun  4 15:37 home
-rwxr-xr-x   2 root root 1.4M Jun  4 15:30 init
lrwxrwxrwx   1 root root    7 May  2 03:04 lib -> usr/lib
lrwxrwxrwx   1 root root    9 May  2 03:04 lib32 -> usr/lib32
lrwxrwxrwx   1 root root    9 May  2 03:04 lib64 -> usr/lib64
lrwxrwxrwx   1 root root   10 May  2 03:04 libx32 -> usr/libx32
drwx------   2 root root  16K Apr 10  2019 lost+found
drwxr-xr-x   2 root root 4.0K May  2 03:04 media
drwxr-xr-x   8 root root 4.0K Jun  4 15:36 mnt
drwxr-xr-x   2 root root 4.0K May  2 03:04 opt
dr-xr-xr-x 196 root root    0 Jun  4 18:20 proc
drwx------   2 root root 4.0K May  2 03:05 root
drwxr-xr-x   6 root root  120 Jun  4 18:20 run
lrwxrwxrwx   1 root root    8 May  2 03:04 sbin -> usr/sbin
drwxr-xr-x   8 root root 4.0K May  2 03:06 snap
drwxr-xr-x   2 root root 4.0K May  2 03:04 srv
dr-xr-xr-x  11 root root    0 Jun  4 18:20 sys
drwxrwxrwt   2 root root 4.0K May  2 03:05 tmp
drwxr-xr-x  14 root root 4.0K May  2 03:04 usr
drwxr-xr-x  13 root root 4.0K May  2 03:05 var
```

t

30. Write a command to make a testdir in your home directory.
    Command: mkdir ~testdir
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ mkdir ~/testdir
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello  hello.txt  newfolder1  testdir
aaryansh@LAPTOP-HGGFI3GM:~$
```

31. Write a command to change to the /etc directory, stay here and create a directory newdir in your home directory.

Command: cd /etc; mkdir ~newdir
Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ cd /etc; mkdir ~/newdir
aaryansh@LAPTOP-HGGFI3GM:/etc$ cd ~;ls
Hello   hello.txt   newdir   newfolder1   testdir
aaryansh@LAPTOP-HGGFI3GM:~$
```

32. Write a command to remove the test dir.
    Command: rm testdir or rmdir testdir
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:/etc$ cd ~;ls
Hello   hello.txt   newdir   newfolder1   testdir
aaryansh@LAPTOP-HGGFI3GM:~$ rm -d testdir
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello   hello.txt   newdir   newfolder1
aaryansh@LAPTOP-HGGFI3GM:~$
```

33. Write a command to display the file type of /bin/cat, /etc/passwd and /usr/bin/passwd.
    Command: file /bin/cat /etc/passwd /usr/bin/passwd
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ file /bin/cat /etc/passwd /usr/bin/passwd
/bin/cat:        ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV)
17775373b1a7783fbd0d83c2fe7f21f6e, for GNU/Linux 3.2.0, stripped
/etc/passwd:     ASCII text
/usr/bin/passwd: setuid ELF 64-bit LSB pie executable, x86-64, version 1
3491ccd9d01e39519fb586aa5be367b22d4cf6ef, for GNU/Linux 3.2.0, stripped
aaryansh@LAPTOP-HGGFI3GM:~$
```

34. Write a command to create a directory ~/touched and enter it.
    Command: mkdir ~/touched; cd ~/touched
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~$ mkdir ~/touched; cd ~/touched
aaryansh@LAPTOP-HGGFI3GM:~/touched$
```

35. Write a command to create today.txt and yesterday.txt
    Command: touch today.txt yesterday.txt
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~/touched$ touch today.txt yesterday.txt
aaryansh@LAPTOP-HGGFI3GM:~/touched$ ls
today.txt   yesterday.txt
aaryansh@LAPTOP-HGGFI3GM:~/touched$
```

36. Write a command to create copy of yesterday.txt
    Command:cp yesterday.txt copy_yesterday.txt
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~/touched$ cp yesterday.txt copy_yesterday.txt
aaryansh@LAPTOP-HGGFI3GM:~/touched$ ls
copy_yesterday.txt   today.txt   yesterday.txt
aaryansh@LAPTOP-HGGFI3GM:~/touched$
```

37. Write a command to create a dir ~/test_backup and copy all files of ~/touched in the ~/test_backup

Command: mkdir ~/testbackup ; cp -r ~/touched ~/testbackup/
Output:

```
aaryansh@LAPTOP-HGGFI3GM:~/touched$  mkdir ~/testbackup ; cp -r ~/touched ~/testbackup/
aaryansh@LAPTOP-HGGFI3GM:~/touched$ ls
copy_yesterday.txt  today.txt  yesterday.txt
aaryansh@LAPTOP-HGGFI3GM:~/touched$ cd ~
aaryansh@LAPTOP-HGGFI3GM:~$ cd testbackup
aaryansh@LAPTOP-HGGFI3GM:~/testbackup$ ls
touched
aaryansh@LAPTOP-HGGFI3GM:~/testbackup$ cd touched
aaryansh@LAPTOP-HGGFI3GM:~/testbackup/touched$ ls
copy_yesterday.txt  today.txt  yesterday.txt
aaryansh@LAPTOP-HGGFI3GM:~/testbackup/touched$ |
```

38. Write a command to delete testbackup and all its contents
    Command:rm -rf ~/testbackup
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~/testbackup/touched$ rm -rf ~/testbackup
aaryansh@LAPTOP-HGGFI3GM:~/testbackup/touched$ cd ~
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello  hello.txt  newdir  newfolder1  touched
aaryansh@LAPTOP-HGGFI3GM:~$
```

39. Write a command to copy all .conf files from etc to ~/etc
    Command: cp -r /etc/*.conf ~/etcbackup
    Output:

```
aaryansh@LAPTOP-HGGFI3GM:~/touched$ mkdir ~/etcbackup; cp -r /etc/*.conf ~/etcbackup
aaryansh@LAPTOP-HGGFI3GM:~/touched$ cd ..
aaryansh@LAPTOP-HGGFI3GM:~$ ls
Hello  etcbackup  hello.txt  newdir  newfolder1  touched
aaryansh@LAPTOP-HGGFI3GM:~$ ls /etcbackup
ls: cannot access '/etcbackup': No such file or directory
aaryansh@LAPTOP-HGGFI3GM:~$ cd etcbackup
aaryansh@LAPTOP-HGGFI3GM:~/etcbackup$ ls
adduser.conf          deluser.conf  gai.conf    ld.so.conf    mke2fs.conf    pam.conf     sudo.conf          ucf.conf
ca-certificates.conf  e2scrub.conf  hdparm.conf libaudit.conf nftables.conf  resolv.conf  sudo_logsrvd.conf  wsl.conf
debconf.conf          fuse.conf     host.conf   logrotate.conf nsswitch.conf rsyslog.conf sysctl.conf        xattr.conf
aaryansh@LAPTOP-HGGFI3GM:~/etcbackup$ |
```

40. Write a command to rename all .conf files to *.backup where * is a number.
    Command:
    Output:

```
root@DESKTOP-0MI1MDJ:~# touch 1.conf 2.conf ;rename 's/\.conf$/\.backup/' *.conf
root@DESKTOP-0MI1MDJ:~# ls
1.backup  2.backup  etcbackup  newdir  touched
```

41. Write a command to check when you type passwd, which file is executed ?
    Command: which passwd
    Output:

```
root@DESKTOP-0MI1MDJ:~# which passwd
/usr/bin/passwd
```

42. Write a command to check what type of file is /usr/bin/passwd.
    Command: file /usr/bin/passwd or which passwd | file

Output:

```
root@DESKTOP-0MI1MDJ:~# which passwd | file
Usage: file [-bcCdEhikLlNnprsSvzZ0] [--apple] [--extension] [--mime-encoding]
            [--mime-type] [-e <testname>] [-F <separator>]  [-f <namefile>]
            [-m <magicfiles>] [-P <parameter=value>] [--exclude-quiet]
            <file> ...
       file -C [-m <magicfiles>]
       file [--help]
root@DESKTOP-0MI1MDJ:~#
```

43. Execute pwd command twice.
    Command: pwd; pwd
    Output:

```
root@DESKTOP-0MI1MDJ:~# pwd; pwd
/root
/root
```

44. Execute ls after cd /etc but only if cd /etc does not error.
    Command: cd /etc && ls
    Output:

```
root@DESKTOP-0MI1MDJ:~# cd /etc && ls
PackageKit                dpkg            locale.gen
X11                       e2scrub.conf    localtime
adduser.conf              environment     logcheck
alternatives              ethertypes      login.defs
```

45. Execute cd /etc after cd etc, but only if cd etc fails.
    Command: cd etc || cd /etc
    Output:

```
root@DESKTOP-0MI1MDJ:/# cd etc || cd /etc
cd etc : command not found
root@DESKTOP-0MI1MDJ:/etc#
```

46. Execute sleep 6, what is this command doing ?
    Command: Sleep 6s
    Output:

```
root@DESKTOP-0MI1MDJ:/etc# sleep 6s
root@DESKTOP-0MI1MDJ:/etc#
```

47. Execute sleep 200 in background (do not wait for it to finish).
    Command: sleep 200s &
    Output:

```
root@DESKTOP-0MI1MDJ:/etc# sleep 200s &
[1] 125
```

48. Does the file /bin/cat exist ? What about /bin/dd and /bin/echo. What is the type
    of these files ?
    Command: ls /bin/cat ; file /bin/cat
             ls /bin/dd ; file /bin/dd
             ls /bin/echo ; file /bin/echo

Output:

```
root@DESKTOP-0MI1MDJ:~# ls /bin/cat ; file /bin/cat
/bin/cat
/bin/cat: ELF 64-bit LSB pie executable, x86-64, version 1
-linux-x86-64.so.2, BuildID[sha1]=44af8b317775373b1a7783fbc
root@DESKTOP-0MI1MDJ:~# ls /bin/dd ; file /bin/dd
/bin/dd
/bin/dd: ELF 64-bit LSB pie executable, x86-64, version 1 (
linux-x86-64.so.2, BuildID[sha1]=9aaea5334416bdc28dea3acf86
root@DESKTOP-0MI1MDJ:~# ls /bin/echo ; file /bin/echo
/bin/echo
/bin/echo: ELF 64-bit LSB pie executable, x86-64, version 1
d-linux-x86-64.so.2, BuildID[sha1]=b56baf290970e98b8056b1a8
root@DESKTOP-0MI1MDJ:~#
```

49. What is the size of the Linux kernel file(s) (vmlinu*) in /boot ?
    Command: ls -lh /boot/vm*
    Output:

```
└$ ls -ls /boot/vm*
7336 -rw-r--r-- 1 root root 7508448 Jul  7  2022 /boot/vmlinuz-5.18.0-kali5-amd64
7440 -rw-r--r-- 1 root root 7614752 Aug 31  2022 /boot/vmlinuz-5.18.0-kali7-amd64
```

50. Issue the following two commands, and look at the first character of each output
    Line.
    Command: ls -l /dev/sd* /dev/hd*
              ls -l /dev/tty* /dev/input/mou*
    Output: