Basic Linux Commands and Operations

1. Navigation

```
prathamesh@prathamesh:~$ pwd
/home/prathamesh
prathamesh@prathamesh:~$ ls
all
                   help.h
                            main prathamesh.c
Desktop Downloads
                   help.o
                            main prathamesh.o
Devops
        help.c
                   main.c
                            Makefile
prathamesh@prathamesh:~$ cd Devops/Hello
prathamesh@prathamesh:~/Devops/Hello$ cd ~
prathamesh@prathamesh:~$ cd -
/home/prathamesh/Devops/Hello
prathamesh@prathamesh:~/Devops/Hello$
```

2. File Operations

```
prathamesh@prathamesh:~$ touch operation.txt
prathamesh@prathamesh:~$ ls
all
        Documents help.h main prathamesh.c Music
Desktop Downloads help.o main prathamesh.o operation.txt snap
Devops help.c
                   main.c Makefile
prathamesh@prathamesh:~$ mkdir Linux
prathamesh@prathamesh:~$ rm operation.txt
prathamesh@prathamesh:~$ ls
                                               Makefile Public
all
        Documents help.h main.c
Desktop Downloads help.o main_prathamesh.c Music
Devops help.c Linux main_prathamesh.o Pictures Templates
prathamesh@prathamesh:~$ rm -r Linux
prathamesh@prathamesh:~$ ls
        Documents help.h main_prathamesh.c Music
all
Desktop Downloads help.o main_prathamesh.o Pictures Templates
Devops help.c main.c Makefile Public Videos
prathamesh@prathamesh:~$ cp help.c /home/prathamesh/Devops
prathamesh@prathamesh:~$ cd Devops/
prathamesh@prathamesh:~/Devops$ ls
first.sh Hello help.c ps.sh task2.sh task3.sh task3.sh.save task4.sh task5.sh task.sh
prathamesh@prathamesh:~/Devops$ mv task.sh /home/prathamesh
prathamesh@prathamesh:~/Devops$ cd ...
prathamesh@prathamesh:~$ ls
Desktop Downloads help.o main_prathamesh.o Pictures
all
                                                         task.sh
        help.c
                   main.<u>c</u> Makefile
prathamesh@prathamesh:~$
```

3. Viewing and Editing Files

```
prathamesh@prathamesh:~$ cat help.c
#include <stdio.h>

#include "help.h"

void help()
{
  printf("you are in the help");
  return;
}
```

less→

```
#include <a to still the still
```

4. File Permissions

```
prathamesh@prathamesh:~/Devops$ ./Ps.sh
bash: ./Ps.sh: Permission denied
prathamesh@prathamesh:~/Devops$ chmod 777 ./Ps.sh
prathamesh@prathamesh:~/Devops$ ./Ps.sh
Hello PS

prathamesh@prathamesh:~/Devops$ ls -l Ps.sh
-rwxrwxrwx 1 prathamesh prathamesh 16 Feb 17 20:04 Ps.sh
prathamesh@prathamesh:~/Devops$ sudo chown rohan Ps.sh
prathamesh@prathamesh:~/Devops$ ls -l Ps.sh
-rwxrwxrwx 1 rohan prathamesh 16 Feb 17 20:04 Ps.sh
prathamesh@prathamesh:~/Devops$
```

5. Process Management

6. System Information

```
48
prathamesh@prathamesh:~/Devops$
```

7. Miscellaneous

```
prathamesh@prathamesh:~/Devops$ grep 'Hello' Ps.sh
echo "Hello PS"
prathamesh@prathamesh:~/Devops$ find /home/prathamesh -name help.c
/home/prathamesh/help.c
/home/prathamesh/Devops/help.c
prathamesh@prathamesh:~/Devops$ history
   1 sudo apt update
    2 sudo apt install -y build -essential linux-headers-$(prathamesh -r)
   3 sudo apt install -y build-essential linux-headers-$(prathamesh -r)
   4 ls
   5 ./autorun.inf
     ./autorun.sh
    б
    7 ls
   8 cd desktop
   9 desktop
   10 cd Desktop
```