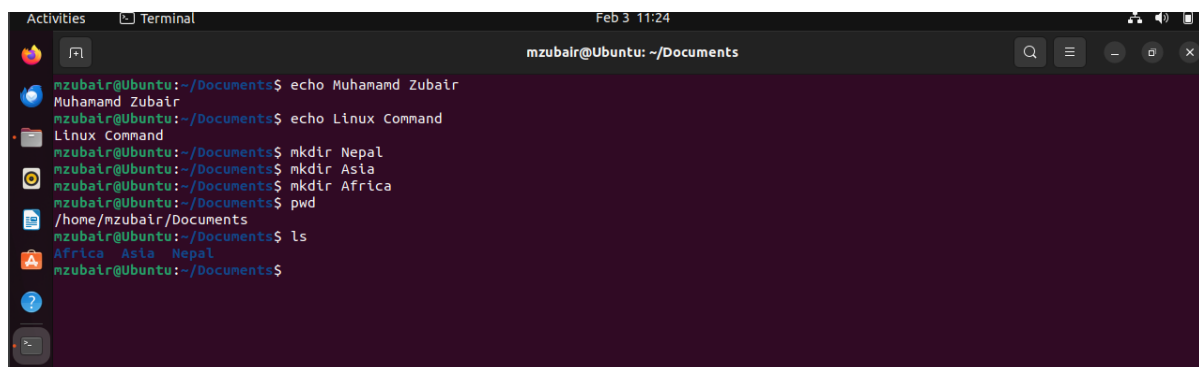


Linux Commands

We are working in Ubuntu operating system. So while working in Ubuntu system we performing different operations in Terminal. For performing function we need some Command which are following:

Echo,Mkdir,pwd,ls

Command	Operation
Echo	To write any thing on Terminal
mkdir	To make a new directory
pwd	To see a Working Directory
ls	To see all the Directories



```
Activities Terminal Feb 3 11:24
mzubair@Ubuntu: ~/Documents
mzubair@Ubuntu:~/Documents$ echo Muhamamd Zubair
Muhamamd Zubair
mzubair@Ubuntu:~/Documents$ echo Linux Command
Linux Command
mzubair@Ubuntu:~/Documents$ mkdir Nepal
mzubair@Ubuntu:~/Documents$ mkdir Asia
mzubair@Ubuntu:~/Documents$ mkdir Africa
mzubair@Ubuntu:~/Documents$ pwd
/home/mzubair/Documents
mzubair@Ubuntu:~/Documents$ ls
Africa Asia Nepal
mzubair@Ubuntu:~/Documents$
```

Cd,Rmdir

Command	Opertation
cd	To change Directory
rmdir	To Remove any Dlrectory



```
mzubair@Ubuntu: ~/Documents
mzubair@Ubuntu:~/Documents$ echo Linux Commands
Linux Commands
mzubair@Ubuntu:~/Documents$ pwd
/home/mzubair/Documents
mzubair@Ubuntu:~/Documents$ ls
Africa Asia Nepal
mzubair@Ubuntu:~/Documents$ Cd Asia
Cd: command not found
mzubair@Ubuntu:~/Documents$ cd Asia
mzubair@Ubuntu:~/Documents/Asia$ ls
mzubair@Ubuntu:~/Documents/Asia$ pwd
/home/mzubair/Documents/Asia
mzubair@Ubuntu:~/Documents/Asia$ cd ..
mzubair@Ubuntu:~/Documents$ ls
Africa Asia Nepal
mzubair@Ubuntu:~/Documents$ rmdir Nepal
mzubair@Ubuntu:~/Documents$ ls
Africa Asia
mzubair@Ubuntu:~/Documents$
```

Is Commands

Command	Operation
ls -l	To display a long list of Directory (Long Format)
ls -a	To display all the files including Hidden Files
ls -lt	To display all directories in long format sorted by modification time, with the newest items appearing first
ls -ltr	To display all directories in long format sorted by modification time in reverse order, with the oldest items appearing first

```
mzubair@Ubuntu: ~/Documents
mzubair@Ubuntu:~/Documents$ echo Linux Commands
Linux Commands
mzubair@Ubuntu:~/Documents$ ls
Africa  Asia
mzubair@Ubuntu:~/Documents$ ls -l
total 8
drwxrwxr-x 2 mzubair mzubair 4096 Feb  3 11:07 Africa
drwxrwxr-x 2 mzubair mzubair 4096 Feb  3 11:07 Asia
mzubair@Ubuntu:~/Documents$ ls a
ls: cannot access 'a': No such file or directory
mzubair@Ubuntu:~/Documents$ ls -lt
total 8
drwxrwxr-x 2 mzubair mzubair 4096 Feb  3 11:07 Africa
drwxrwxr-x 2 mzubair mzubair 4096 Feb  3 11:07 Asia
mzubair@Ubuntu:~/Documents$ ls -ltr
total 8
drwxrwxr-x 2 mzubair mzubair 4096 Feb  3 11:07 Asia
drwxrwxr-x 2 mzubair mzubair 4096 Feb  3 11:07 Africa
mzubair@Ubuntu:~/Documents$
```

User Related Commands

Command	Operation
id	To display the information about Current user
who	To display a list of usernames who are Currently Logged-In
last	To display a list of previously Logged-in users and system shutdown/reboot times

```
mzubair@Ubuntu: ~/Documents
mzubair@Ubuntu:~/Documents$ echo User Related Commands
User Related Commands
mzubair@Ubuntu:~/Documents$ id
uid=1000(mzubair) gid=1000(mzubair) groups=1000(mzubair)
mzubair@Ubuntu:~/Documents$ who
mzubair    tty2      2024-02-03 10:43 (tty2)
mzubair@Ubuntu:~/Documents$ last
mzubair    tty2      Sat Feb  3 10:43    still logged in
reboot     system   boot  6.5.0-15-generic  Sat Feb  3 10:42    still running
mzubair    tty2      Sat Feb  3 10:30 - crash (00:11)
mzubair    tty2      Wed Jan 31 16:32 - 10:30 (2+17:57)
mzubair    tty2      Thu Jan 25 21:59 - 16:31 (5+18:32)
reboot     system   boot  6.5.0-15-generic  Thu Jan 25 21:57    still running

wtmp begins Thu Jan 25 21:57:35 2024
mzubair@Ubuntu:~/Documents$
```

File Handling Commands

Command	Operation
touch filename	To Create a file in the directory
echo " Text " > filename	For overwriting data in File
echo " Text " >> filename	For append data in File
nano filename	To create a file in the directory as well as open editor to add data in file after write data press ctrl+o for save data and press ctrl+x for exit editor
cat filename	To see store data in file
rm filename	To remove file from directory
head filename	To display the first ten lines of file
tail filename	To display the last ten lines of file



```
mzubair@Ubuntu: ~/Documents
mzubair@Ubuntu:~/Documents$ ls
Africa Asia data.txt zubair.txt
mzubair@Ubuntu:~/Documents$ rm data.txt
mzubair@Ubuntu:~/Documents$ rm zubair.txt
mzubair@Ubuntu:~/Documents$ ls
Africa Asia
mzubair@Ubuntu:~/Documents$ touch file1.txt
mzubair@Ubuntu:~/Documents$ echo "Muhammad Zubair" > file1.txt
mzubair@Ubuntu:~/Documents$ cat file.txt
cat: file.txt: No such file or directory
mzubair@Ubuntu:~/Documents$ cat file1.txt
Muhammad Zubair
mzubair@Ubuntu:~/Documents$ echo "Computer Science from UET" >> file1.txt
mzubair@Ubuntu:~/Documents$ cat file1.txt
Muhammad Zubair
Computer Science from UET
mzubair@Ubuntu:~/Documents$ nano file2.txt
mzubair@Ubuntu:~/Documents$ cat file2.txt
Zubair 2022-CS-20
Hamza 2022-CS-17
Awais 2022-CS-13
Adnan 2022-CS-30
University of Engineering And Technology Lahore
From Computer Science Departement
mzubair@Ubuntu:~/Documents$ ls
Africa Asia file1.txt file2.txt
mzubair@Ubuntu:~/Documents$
```