Unix Commands

1. ls:-
    a. Command:ls
    b. Usage: lists the files and directories in the current directory.
    c. Output: file1.txt file2.txt folder1 folder2

2. Change Directory(cd):-
    a. Command: cd folder1
    b. Usage: Changes the current directory to folder1
    c. Output: No Output, but now you are in folder1

3. Print Working Directory(pwd):-
    a. Command: pwd
    b. Usage: prints the current working directory
    c.
4. Make Directory (mkdir):-
    a. Command: mkdir new_folder

5. Remove Directory(rmdir):-
    a. Command: rmdir new_folder
    b. Usage: used to remove selected directory

6. Create empty file(touch):-
   a. Command: touch [file]
   b. Usage: creates a new empty file

7. Remove file(rm):-
   a. Command: rm[file]
   b. Usage: remove or delete a file

8. Copy file(cp):-
   a. Command: cp[source][destination]
   b. Usage: copies file from one source to another

9. Move file(mv):-
   a. Command: mv file_name.txt folder2
   b. Usage: moves file from one destination to another

10. View file contents(cat):-
    a. Command: cat[file]
    b. Usage: concatenates two files and displays content of the file

11. echo(edit file contents):-

12. Grep:-
13. grep -i:-
14. grep c:-
15. find:-

Case Study:-

Student management System

```
1  ls
2  pwd
```

```
main.sh
/home/cg/root/661dce1272a02
```

```
1   mkdir ACRO
2   ls
3   cd ACRO
4   mkdir CSE CSIT
5   ls
6   cd CSIT
7   mkdir CYBER
8   cd CYBER
9
10
```

```
ACRO  main.sh
CSE   CSIT
```

```
1  #mkdir ACRO
2  #ls
3  #cd ACRO
4  #mkdir CSE CSIT
5  #ls
6  #cd CSIT
7  #mkdir CYBER
8  #cd CYBER
9  #touch student1.txt student2.txt student3.txt student4.txt student5.txt
10 #ls
11 #echo "Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38" > student1.txt
12 #echo "Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28" > student2.txt
13 #echo "Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00" > student3.txt
14 #echo "Name: def gh\nMajor: Cyber Security\n SGPA: 6" > student4.txt
15 #echo "Name: abc cd\nMajor: Cyber Security\n SGPA: 5" > student5.txt
16 ls
17 cat student1.txt
```

```
ACRO      student1.txt  student3.txt  student5.txt
main.sh   student2.txt  student4.txt
Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38
```

```
1  #mkdir ACRO
2  #ls
3  #cd ACRO
4  #mkdir CSE CSIT
5  #ls
6  #cd CSIT
7  #mkdir CYBER
8  #cd CYBER
9  #touch student1.txt student2.txt student3.txt student4.txt student5.txt
10 #ls
11 #echo "Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38" > student1.txt
12 #echo "Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28" > student2.txt
13 #echo "Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00" > student3.txt
14 #echo "Name: def gh\nMajor: Cyber Security\n SGPA: 6" > student4.txt
15 #echo "Name: abc cd\nMajor: Cyber Security\n SGPA: 5" > student5.txt
16 ls
17 cat student1.txt
18 cat student2.txt
19 cat student3.txt
20 cat student3.txt
21 cat student4.txt
```

```
ACRO      student1.txt  student3.txt  student5.txt
main.sh   student2.txt  student4.txt
Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38
Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28
Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00
Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00
Name: def gh\nMajor: Cyber Security\n SGPA: 6
```

```
1  #mkdir ACRO
2  #ls
3  #cd ACRO
4  #mkdir CSE CSIT
5  #ls
6  #cd CSIT
7  #mkdir CYBER
8  #cd CYBER
9  #touch student1.txt student2.txt student3.txt student4.txt student5.txt
10 #ls
11 #echo "Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38" > student1.txt
12 #echo "Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28" > student2.txt
13 #echo "Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00" > student3.txt
14 #echo "Name: def gh\nMajor: Cyber Security\n SGPA: 6" > student4.txt
15 #echo "Name: abc cd\nMajor: Cyber Security\n SGPA: 5" > student5.txt
16 #ls
17 #cat student1.txt
18 #cat student2.txt
19 #cat student3.txt
20 #cat student3.txt
21 #cat student4.txt
22 mv student1.txt ../CSIT
23 ls
```

```
ACRO  main.sh  student2.txt  student3.txt  student4.txt  student5.txt
```

```
1  #mkdir ACRO
2  #ls
3  #cd ACRO
4  #mkdir CSE CSIT
5  #ls
6  #cd CSIT
7  #mkdir CYBER
8  #cd CYBER
9  #touch student1.txt student2.txt student3.txt student4.txt student5.txt
10 #ls
11 #echo "Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38" > student1.txt
12 #echo "Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28" > student2.txt
13 #echo "Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00" > student3.txt
14 #echo "Name: def gh\nMajor: Cyber Security\n SGPA: 6" > student4.txt
15 #echo "Name: abc cd\nMajor: Cyber Security\n SGPA: 5" > student5.txt
16 #ls
17 #cat student1.txt
18 #cat student2.txt
19 #cat student3.txt
20 #cat student3.txt
21 #cat student4.txt
22 #mv student1.txt ../CSIT
23 mv student2.txt student10.txt
24 ls
```

```
ACRO  main.sh  student10.txt  student3.txt  student4.txt  student5.txt
```

```
1  #mkdir ACRO
2  #ls
3  #cd ACRO
4  #mkdir CSE CSIT
5  #ls
6  #cd CSIT
7  #mkdir CYBER
8  #cd CYBER
9  #touch student1.txt student2.txt student3.txt student4.txt student5.txt
10 #ls
11 #echo "Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38" > student1.txt
12 #echo "Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28" > student2.txt
13 #echo "Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00" > student3.txt
14 #echo "Name: def gh\nMajor: Cyber Security\n SGPA: 6" > student4.txt
15 #echo "Name: abc cd\nMajor: Cyber Security\n SGPA: 5" > student5.txt
16 #ls
17 #cat student1.txt
18 #cat student2.txt
19 #cat student3.txt
20 #cat student3.txt
21 #cat student4.txt
22 #mv student1.txt ../CSIT
23 #mv student2.txt student10.txt
24 cat student10.txt
```

```
Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28
```

```
1  #mkdir ACRO
2  #ls
3  #cd ACRO
4  #mkdir CSE CSIT
5  #ls
6  #cd CSIT
7  #mkdir CYBER
8  #cd CYBER
9  #touch student1.txt student2.txt student3.txt student4.txt student5.txt
10 #ls
11 #echo "Name: Vedika Joshi\nMajor: Cyber Security\n SGPA: 7.38" > student1.txt
12 #echo "Name: Riya Dubey\nMajor: Cyber Security\n SGPA: 7.28" > student2.txt
13 #echo "Name: Sakshi Parihar\nMajor: Cyber Security\n SGPA: 7.00" > student3.txt
14 #echo "Name: def gh\nMajor: Cyber Security\n SGPA: 6" > student4.txt
15 #echo "Name: abc cd\nMajor: Cyber Security\n SGPA: 5" > student5.txt
16 #ls
17 #cat student1.txt
18 #cat student2.txt
19 #cat student3.txt
20 #cat student3.txt
21 #cat student4.txt
22 #mv student1.txt ../CSIT
23 #mv student2.txt student10.txt
24 #cat student10.txt
25 rm student5.txt
26 ls
```

```
ACRO  main.sh  student10.txt  student4.txt
```