

Lab Assignment 1

Operating System Lab

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Task: Implement shell script for file management system.

Link of Code:

https://github.com/utkarshhraj/OS/blob/master/OS_Lab_Ass_1/OSLab_Ass_1.sh

Commands used:

- ls
- cd
- pwd
- ls -l
- read
- echo
- if, then, else
- mkdir
- rmdir
- while, do, done
- touch
- cat
- cp
- break, continue
- mv
- rm

Code:

```
echo-----FILE MANAGEMENT SYSTEM-----
-----
echo give a path of folder which contain some files:
cd /
read a
cd $a
echo enter 1 to List files stored along with their sizes.
echo enter 2 to Create files
echo enter 3 to Allow changes to files
echo enter 4 to Delete files
echo enter 5 to store information of files
echo enter 6 to move files between the directories
read n
case "$n" in

1) ls -s;;
2) echo enter file_name and write in file
   read f
   cat> $f;;
3) echo give path of folder to make changes in the files
   read c
   cd /
   cd $c
   echo folder contain files:-
   ls
   echo give the name of file you want to make changes
   read d
   echo "enter 1 for read,write,execute to user group and others"
   echo "enter 2 for read and write to users and group"
   echo "enter 3 for read write and execute to only users"
   read m
   case "$m" in
   1) chmod 777 $d;;
   2) chmod 660 $d;;
   3) chmod 700 $d;;
   esac
   echo changes happened:-
   ls -l;;
4) echo files are:-
   ls
   echo enter no. of files you want to delete
   read countt
   for(( i=1 ; i<=$countt ; i++ ))
   do
   echo give filename to delete
   read e
   rm -r $e
   echo file $e is deleted
   echo now files are:-
   ls
   done;;

5) echo files are:-
   ls
```

```
    echo enter name of file you want to see the information and store
it in status file.
    read g
    echo information of file is:
    stat $g
    touch status
    stat $g>>status
    echo information of file is stored in file name status and its
path is $a/status;;
```

6) echo enter the path of source directory from where you want to copy the files:

```
    read p
    echo enter the path of destination directory to where you want to
move the files:
    read q
    cd /
    cd $p
    echo files of source dir are:-
    ls
```

```
    echo enter no. of files you want to move.
    read count
    for(( i=1 ; i<=$count ; i++ ))
    do
    cd /
    cd $p
    echo files of source dir are:-
    ls
    echo enter the name of file you want to move
    read name
    mv /$p/$name /$q
    cd /
    cd $q
    echo content of destination dir $q now are:
    ls
    done ;;
```

```
esac
```

Screenshot of Output:

```
----- FILE MANAGEMENT SYSTEM-----
give a path of folder which contain some files:
home/utkarsh/Desktop/xyz
enter 1 to List files stored along with their sizes.
enter 2 to Create files
enter 3 to Allow changes to files
enter 4 to Delete files
enter 5 to store information of files
enter 6 to move files within a directory
4
files are:-
a b c d
enter no. of files you want to delete
3
give filename to delete
a
file a is deleted
now files are:-
b c d
give filename to delete
b
file b is deleted
now files are:-
c d
give filename to delete
d
file d is deleted
now files are:-
c

```