

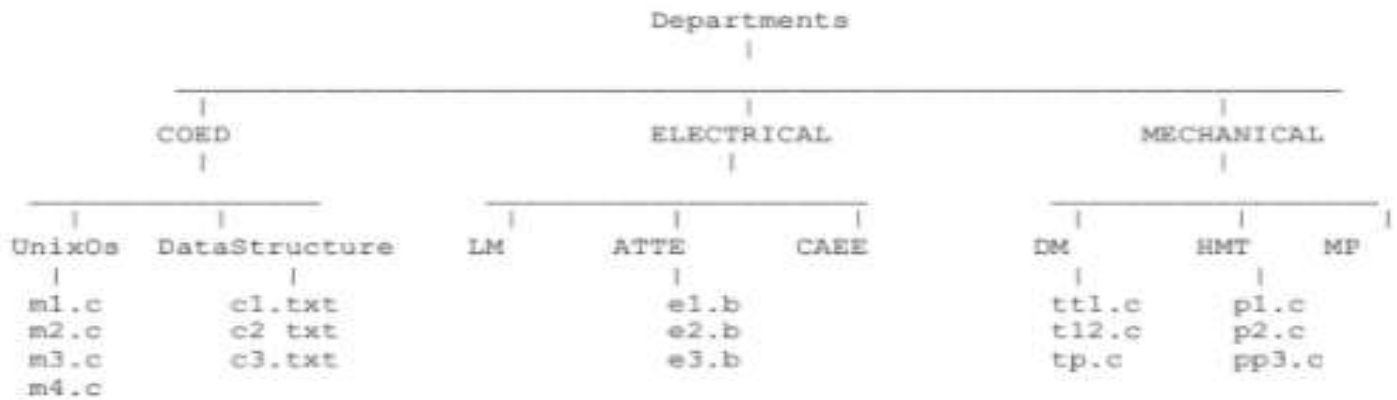
OPERATING SYSTEMS

Assignment 1

SOURABH PATEL

U19CS082

1. Create the directory and files for the following structure and write single Unix command for each given instruction:



mkdir departments

cd departments

mkdir code

mkdir electrical

mkdir mechanical

cd code

mkdir unixos

mkdir datastructure

cd unixos

touch m1.c

touch m2.c

touch m3.c

cd ..

cd datastructure

touch c1.txt

touch c2.txt

touch c3.txt

cd ../..

cd electrical

mkdir lm

mkdir atte

mkdir caee

cd atte

touch e1.c

touch e2.c

touch e3.c

cd ../../mechanical

```
mkdir dm
mkdir hmt
mkdir mp
cd dm
touch tt1.c
touch t12.c
touch tp.c
cd ../hmt
touch p1.c
touch p2.c
touch pp3.c
```

1. Display the entire structure.

```
ls -R
```

OUTPUT:-

```
departments

./departments:
code
electrical
mechanical

./departments/code:
datastructure
unixos

./departments/code/datastructure:
c1.txt
c2.txt
c3.txt

./departments/code/unixos:
m1.c
m2.c
m3.c

./departments/electrical:
atte
caee
```

```
lm

./departments/electrical/atte:
e1.c
e2.c
e3.c

./departments/electrical/caee:

./departments/electrical/lm:

./departments/mechanical:
dm
hmt
mp

./departments/mechanical/dm:
t12.c
tp.c
tt1.c

./departments/mechanical/hmt:
p1.c
p2.c
pp3.c

./departments/mechanical/mp:
```

2. Assume that you are in Departments directory. Write a command to copy m1.c of UnixOs directory to DM directory.

```
cp ../code/unixos/m1.c mechanical/dm/
```

```
./mechanical/dm:
m1.c
t12.c
tp.c
tt1.c
```

3. Assume that you are in Data Structure directory. Write a command to copy file e2 from ATTE to LM .

```
cp ../../../../electrical/atte/e2.c ../../electrical/lm/
```

```
./departments/electrical/lm:  
e2.c
```

4. Assume that you are in HMT directory. Copy all files of HMT directory, having 3 characters filename, to MP directory.

```
cp ./???*.? ..mp/
```

```
$ ls ../mp  
pp3.c
```

5. Assume that you are in Departments directory. Copy all files of COED directory having first character "c" in name to CAEE directory.

```
cp ./code/*/c*.? ./electrical/caee
```

```
./electrical/caee:  
c1.txt c2.txt c3.txt
```

6. Change the name of file tp.c of to ctp.c.

```
$ mv dm/ctp.c dm/tp.c
```

```
$ ls dm  
ctp.c  t12.c  tt1.c
```

7. Rename e1.b to e1.c.

```
$ mv e1.c e1.b
```

```
$ ls  
e1.b  e2.c  e3.c
```

8. Delete file having second char. p of HMT directory.

```
$ rm ?p*.*
```

```
$ ls  
p1.c  p2.c
```

9. Assume that you are in ELECTRICAL directory delete m1.c of DM directory.

```
$ rm ../../mechanical/dm/m1.c
```

```
$ ls ../../mechanical/dm/  
t12.c  tp.c  tt1.c
```

10. Assume that you are in MECHANICAL directory. Delete all files of Unix Os

directory having 2 characters in filename.

```
$ rm ../../code/unixos/??.*
```

```
$ ls ../../code/unixos/
```

11.You are in MP. Directory, display the current directory path.

```
$ pwd
```

```
$ pwd  
/home/karan/departments/mechanical/mp
```

13.Remove UnixOs directory

```
$ rmdir unixos/
```

```
$ ls  
datastructure
```

14.Display current date and time.

```
$ date
```

```
$ date  
Mon Jul 26 22:31:53 IST 2021
```

15.Display content of file c3 with page break.

```
$ cat c3.txt|more
```

```
$ cat c3.txt|more  
Hello sir/mam  
I am karan raj jayswal  
thank you
```

16.Change the permissions of file p2.c to different modes possible.

```
$ chmod a+x p2.c
```

```
$ ls -l  
total 0  
-rw-r--r-- 1 karan karan 0 Jul 26 20:48 p1.c  
-rwxr--r-- 1 karan karan 0 Jul 26 20:48 p2.c  
$ chmod a+x p2.c
```



```
$ ls -l
total 0
-rw-r--r-- 1 karan karan 0 Jul 26 20:48 p1.c
-rwxr-xr-x 1 karan karan 0 Jul 26 20:48 p2.c
```

17.You are in root directory, display the all filename of MP directory.

```
$ ls departments/mechanical/mp/
```

```
$ ls departments/mechanical/mp/
pp3.c
```

18.Clear all the screen on which u work

```
$ clear
```

```
$
```