

9/7/23

LAB-11

papergrid

Date: / /

①

Shell program on pathcmd

```
$ cat > c1
```

h

e

m

a

```
$ cat > c2
```

n

a

g

a

r

s

j

```
$ cat > c3
```

echo " program to show pathcmd "

echo " Executing pathcmd "

echo " contents of file1 "

```
cat c1
```

echo " contents of file2 "

```
cat c2
```

echo " after executing pathcmd "

Path c3 c1 c2

o/b contents of file 1

h
e
m
a

contents of file 2

n
a
g
a
r
g
i

after executing paste command.

h	n
e	g
m	a
a	r
	g
	i

② Shell program for sort with 3 options

```
$ sort fileC1 (sort)
```

a
e

h
m

```
$ sort C2
```


a
a
a
g
n
r

\$ sort -k1,1 (sort 1st column)

a
e
h
m

\$ sort -u (sort & remove duplicate)

a
g
n
r

\$ sort -r (reverse)

m
h
e
a

echo "Sorting the files"

echo "Sorting normally"

sort C1

echo "Sorting first col"

sort -k1 C1

echo "Sort and remove duplicate"

sort -u C2

echo "Sort & reverse it"

sort -r C1

olb . Sorting the files

Sorting normally.

a
e
h
m

Sorting first col.

a
e
h
m

sort and remove duplicate.

a

~~a~~
~~e~~
~~h~~
~~m~~

~~a~~
~~e~~
~~h~~
~~m~~

sort & reverse it

m
h
e
a

(3) Demo of uniq & tr cmd.

```
echo "uniq command exec"
uniq -c c1
echo "exec tr cmd"
uniq -c | tr '[a-z][A-Z]
```

o/p uniq command exec.

```
1 h
1 e
1 n
1 a
```

exec tr cmd.

```
N
A
G
A
R
A
J
```

(4) Write c/C++ prgm to find o/p of the contents of /etc/environment list

```
$ nano env.c
#include <stdio.h>
int main (int argc, char* argv[])
{
```



```

int i;
char **ptr;
extern char **environ;
for (ptr = environ; *ptr != 0; ptr++)
    printf("%s\n", *ptr);
return 0;

```

3
 o/p: \$ gcc env.c.
 \$./a.out

~~o/p sw
 a/123~~

LAB-12

① Write a pgm to emulate ln command.

```

#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
#include <string.h>
int main (int argc; char *argv[])
{
    if (argc < 3 || argc > 4 || (argc == 4
        && strcmp(argv[1], "-s")))
    {
        printf("Usage: ./a.out [-s] <arg file>  

        <new link> \n");
        return 1;
    }
}

```