

1. Write shell script for creating hard & soft link files.

echo "Enter file name"

read f

ln -s \$f "Softlink"

ln \$f "Hardlink"

in terminal:

enter file: sum.sh

O/P:

Soft link → sum.sh (like a shortcut to file)

if already executed once → rm softlink
rm hardlink

2. To

find LCM & GCD of 2 numbers

echo "Enter a"

read a

echo "Enter b"

read b

if [\$a -gt \$b]

then

num = \$a

den = \$b

else

num = \$b

den = \$a

fi

r = 'expr \$num % \$den'

```
while [ $r -ne 0 ]
```

```
do
```

```
num=$den
```

```
den=$r
```

```
r=$((expr $num % $den))
```

```
done
```

```
gcd=$den
```

```
lcm=$((expr $a \* $b / $gcd))
```

```
echo "LCM : $lcm"
```

```
echo "GCD : $gcd"
```

O/P:

Enter a: 20

Enter b: 28

LCM : 140

GCD : 4

3. Script to print pattern

```
for i in 1 2 3 4 5
```

```
do
```

```
j=1
```

```
while [ $j -le $i ]
```

```
do
```

```
echo -n "$j"
```

```
j=$((expr $j + 1))
```

```
done
```

```
echo
```

```
done
```

O/P:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

4. write a shell script to locate & print from your home directory tree

a) all files with .html or .HTML

```
ls *.html *.HTML
```

O/P:

```
O.HTML OK.html A.HTML
```

b) directories having 666 permissions

```
chmod 666 test.html
```

```
ls -l test.html
```