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LAB-5

1P Combinations of 1 2 3.

```
#!/bin/bash
for i in 1 2 3
do
for j in 1 2 3
do
for k in 1 2 3
do
echo $i $j $k
done
done
done
```

Output:-

111	131	221	311	331
112	132	222	312	332
113	133	223	313	333.
121	211	231	321	
122	212	232	322	
123	213	233	323	

2P Fibonacci Series.

```
#!/bin/bash
echo "Enter the end limit"
read n
n1=0
n2=1
echo "$n1 $n2 \c"
```

```
while [ $n -gt 2 ]
do
num = $(( $n2 + $n1 ))
echo "$num \c"
n1 = $n2
n2 = $num
n = $(( $n -1 ))
done
```

Output:- Enter the end limit
10
0 1 1 2 3 5 8 13 21 34

3P. GCD and LCM of two numbers.

```
#!/bin/bash
echo "Enter two numbers"
read m
read n
temp = $(($m * $n))
while [ $m -ne $n ]
do
if [ $m -gt $n ]
then
m = $(( $m - $n ))
else
n = $(( $n - $m ))
fi
done
echo "GCD = $n"
LCM = $(( $temp / $n ))
echo "LCM : $LCM"
```

Output :- Enter two numbers
3
5
GCD = 1
LCM = 15

4P. Display Pass class of a student.

```
#!/bin/bash
echo "Enter your marks"
read marks
if [ $marks -le 40 ]
then
echo "fail"
elif [ $marks -ge 40 ]
then
echo "pass"
elif [ $marks -ge 40 ] && [ $marks -le 59 ]
then
echo "result: Second class"
elif [ $marks -ge 60 ] && [ $marks -le 85 ]
then
echo "result: First class"
elif [ $marks -gt 85 ]
then
echo "result: Distinction"
fi
```

Output :- Enter your marks.
84
pass.

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5P. Give multiple file names as argument and search a pattern in the files.

```
#!/bin/bash
for f in $2 $3 $4
do
grep -l "$1" $f
done.
```

Output :- sh grep.sh "bin" gcd.sh fib.sh a.txt

gcd.sh

fib.sh.

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