1.
```bash
#!/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
```

O/P

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

2.
```bash
#!/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
```

O/P

Enter the end limit

10

0 1 1 2 3 5 8 13 21 34

3.
```bash
#!/bin/bash

echo "Enter first number"
read m
echo "Enter second number"
read n
temp=$(($m * $n))
while [ $m -ne $n ]
do
    if [ $m -gt $n ]
    then
        m=$(($m - $n))
    else
        n=$(($n - $m))
    fi
done
gcd=$n
echo "GCD : $gcd"
lcm=$(($temp / $n))
echo "LCM : $lcm"
```

O/P

Enter first number

4

Enter the second number

2

GCD : 2

LCM : 4

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

```
sh grep.sh "bin" gcd.sh fib.sh a.txt
O/P
gcd.sh
fib.sh
```

5.
```
#!/bin/bash
echo "Enter the marks"
read m
if [ $m -glt 40 ]
then
echo "Fail"
elif [ $m -ge 40 ] && [ $m -lt 60 ]
then
echo "Second class"
elif [ $m -ge 60 ] && [ $m -lt 85 ]
then
echo "First class"
else
echo "Distinction"
fi
```

O/P

Enter the marks	Enter the marks
46	67
Second class	First class