

1. Combination of number 1 2 3

```
#!/bin/sh

echo "combinations of 1 2 3 are :"

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
```

2. Power of a number

```
#!/bin/sh

echo "Enter base number: "
read base
echo "Enter power value: "
read pow
res=$base
i=2

while [ $i -le $pow ]
do
    res=$((res*base))
    i=$((i+1))
done
echo $res
```

3. Grade of student

```
#!/bin/sh

echo "Enter 3 marks out of 100: "
read a b c
```

```

marks=$((a+b+c)/3.0)
if [ $marks -gt 100 ]
then
    echo "Invalid marks"
elif [ $marks -ge 90 ]
then
    echo "Grade A"
elif [ $marks -ge 80 ]
then
    echo "Grade B"
elif [ $marks -ge 70 ]
then
    echo "Grade C"
elif [ $marks -ge 50 ]
then
    echo "Grade D"
elif [ $marks -ge 40 ]
then
    echo "Grade E"
else
    echo "Grade F"
fi

```

#### 4. Fibonacci series

```

#!/bin/sh

echo "Enter Number to find Fibonacci series upto"
read f
a=0
b=1
i=1
echo "$a"
echo "$b"
while [ $i -le $f ]
do
    echo "\t$i\n"
    a=$b
    b=$i
    i=$((a+b))
done

```