1) factorial

```bash
# !/bin/bash
echo "Enter a number"
read num
fact=1
n=$num;
while [ $num -ge 1 ]
do
        fact=`expr $fact \* $num`
        num=`expr $num - 1`
done
echo "Factorial of $n is $fact"
```

2)Addn of two num

```bash
#!/bin/bash
# Calculate the sum of two integers with pre initialize values
# in a shell script

a=10
b=20

sum=$(( $a + $b ))

echo "Sum is: $sum"
```

3)Fibonacci series

```bash
#! /bin/bash
echo "Enter the value of n"
read n
a=0
b=1
count=2
echo "Fibonacci series:"
echo $a
echo $b
while [ $count -le $n ]
do
fib=`expr $a + $b`
a=$b
b=$fib
echo $fib
count=`expr $count + 1`
done
```