1. Sum of Odd number upto n

```
#/bin/sh
echo "enter limit of sum : "
read lim

num=1
sum=0

while [ $num -le $lim ]
do

    sum='expr $sum + $num'
    num='expr $num + 2'

done
echo $sum
```

```
bmsce@bmsce-Precision-T1700:~/dev$ sh odd_sum.sh
enter limit of sum :
5
9
bmsce@bmsce-Precision-T1700:~/dev$
```

2. Factorial of a Num

```
bmsce@bmsce-Precision-T1700:~/dev$ sh fact.sh
Enter number to find factorial of
10
3628800
bmsce@bmsce-Precision-T1700:~/dev$
```

3. Convert Farenheit to celsius

```
#/bin/sh
echo "enter temp in Farenheit"
read f

res=$(((f-32)*5/9))
echo $res
~
```

```
bmsce@bmsce-Precision-T1700:~/dev$ sh temp.sh
enter temp in Farenheit
130
54
bmsce@bmsce-Precision-T1700:~/dev$ sh temp.sh
enter temp in Farenheit
98
36
bmsce@bmsce-Precision-T1700:~/dev$
```

4. Gross salary calculator

```
#/bin/sh
echo "Enter basic salary"
read basic

da=`echo "$basic * 0.1" | bc`
hra=`echo "$basic * 0.2" | bc`
gs=`echo "$basic + $da + $hra" | bc`
echo "gross salary is $gs"
~
```

```
bmsce@bmsce-Precision-T1700:~/dev$ sh gross.sh
Enter basic salary
10000
gross salary is 13000.0
bmsce@bmsce-Precision-T1700:~/dev$
```

5. Sum of n natural numbers

6. Arithmetic operations using switch case:

```
$ sh arithmetic.sh

Enter two numbers
2 3

Enter choice 1) Addition
2) Subtraction
3) Multiplication
4) Division
3

Result = 6

$ sh arithmetic.sh
```