DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Semester: V   **Class:** BTech. 3rd Year

Subject Code: CS305   **Subject Name:** UNIX PROGRAMMING

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1)Find the factorial of a number

PROGRAM:

```
echo "Enter number-"
read num
factt= 1
while [ $num -gt 1 ]
do
factt=$(( factt * num ))
num=$(( num - 1 ))
done
echo "The factorial is $factt"
```

OUTPUT:

```
aneesha@aneesha-vm:~/Desktop/shell-Script$ ./factorial.sh
Enter number
6
The factorial is 720
aneesha@aneesha-vm:~/Desktop/shell-Script$
```

2)Find Fibonacci series

PROGRAM:

```
echo "Enter the number"
read n
first=0
second=1
echo "Fibonacci series -"
for (( i=0; i<n; i++ ))
do
echo -n "$first "
third=$(( first + second ))
first=$second
second=$third
Done
```

OUTPUT:

```
aneesha@aneesha-vm:~/Desktop/shell-Script$ ./fib.sh
Enter the number
10
Fibonacci series -
0 1 1 2 3 5 8 13 21 34 aneesha@aneesha-vm:~/Desktop/shell-Script$
```

3)Find sum of n numbers

PROGRAM:

```
echo "Enter the count"
read a
sum=0
i=1
echo "Enter the numbers-"
while [ $i -le $a ]
do
read num
sum=`expr $num + $sum`
i=`expr $i + 1`
done
echo "Sum is- $sum"
```

OUTPUT:

```
aneesha@aneesha-vm:~/Desktop/shell-Script$ ./sum.sh
Enter the count
5
Enter the numbers-
10
10
10
10
10
Sum is- 50
aneesha@aneesha-vm:~/Desktop/shell-Script$
```