Lakshay Sharma

Hindu College

Section B

1. Write a Program to find factorial of the entered number using recursion.

In [1]:
```
def fact(n):
    if n==0 or n==1:
        return 1
    else:
        return n*fact(n-1)
a=int(input("Enter a number"))
print("Factorial is : ",fact(a) )
```

```
Enter a number6
Factorial is :  720
```

2. Write a Program to enter the number of terms and to print the Fibonacci Series.

In [3]:
```
n=int(input("Enter number of terms to be printed :"))
a=0
b=1
print(a,b)
for i in range(n-2):
    c=a+b
    a=b
```

```
    b=c
    print(c)
```

```
Enter number of terms to be printed :50
0 1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
987
1597
2584
4181
6765
10946
17711
28657
46368
75025
121393
196418
317811
514229
832040
1346269
2178309
3524578
5702887
9227465
14930352
24157817
39088169
63245986
102334155
165580141
267914296
433494437
```

```
701408733
1134903170
1836311903
2971215073
4807526976
7778742049
```

3. Write a Program to enter the numbers and to print greatest number using loop.

In [12]:
```
list=[]
n=int(input("Enter number of numbers : "))
for i in range(n):
    list.append(int(input()))
max=0
for a in list:
    if a>max:
        max=a
print("Max value is :", max)
```

```
Enter number of numbers : 4
3
2
4
5
Max value is : 5
```

4. Write a Program to enter the string and to check if it's palindrome or not (using loop).

In [26]:
```
str=input("Enter a string : ")
print(len(str))
i=len(str)-1
j=0
flag=0
while( i>len(str)/2 ):
```

```
    if str[i]!=str[j]:
        print('Not palindrome')
        flag=1
    j=j+1
    i=i-1
if flag==0:
    print('Palindrome')
```

```
Enter a string : aknka
5
Palindrome
```

In [ ]: