**c program to find ncr and npr**

c program to find nCr and nPr: This code calculate nCr which is n!/(r!\*(n-r)!) and nPr = n!/(n-r)!

**C program to find nCr using function**

#include<stdio.h>

long factorial(int);

long find\_ncr(int, int);

long find\_npr(int, int);

main()

{

int n, r;

long ncr, npr;

printf("Enter the value of n and r\n");

scanf("%d%d",&n,&r);

ncr = find\_ncr(n, r);

npr = find\_npr(n, r);

printf("%dC%d = %ld\n", n, r, ncr);

printf("%dP%d = %ld\n", n, r, npr);

return 0;

}

long find\_ncr(int n, int r)

{

long result;

result = factorial(n)/(factorial(r)\*factorial(n-r));

return result;

}

long find\_npr(int n, int r)

{

long result;

result = factorial(n)/factorial(n-r);

return result;

}

long factorial(int n)

{

int c;

long result = 1;

for( c = 1 ; c <= n ; c++ )

result = result\*c;

return ( result );

}

Output of program:  
