Reg no 19BCN7074

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Java code to find ncr and npr

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42 | import java.util.Scanner;  class NcrAndNpr  {  double fact(double n)  {     int i=1;                   double fact=1;      while(i<=n)      {        fact=fact\*i;     i++;      }           return fact;  }  double permutation(int n,int r )  {  double per=fact(n)/fact(n-r);  return per;  }  double combination(int n,int r)  {  double com=fact(n)/(fact(n-r)\*fact(r));  return com;  }  public static void main(String arg[])  {  NcrAndNpr p=new NcrAndNpr( );  Scanner sc=new Scanner(System.in);  System.out.println("enter value of n");                 int n=sc.nextInt();  System.out.println("enter value of r");                 int r=sc.nextInt();  if(n>=r)  {  System.out.println("The value of "+n+"p"+r+" is : "+p.permutation(n,r));  System.out.println("The value of "+n+"c"+r+" is : "+p.combination(n,r));  }  else  System.out.println("n value should be greater than or equals to r value");    }  } |