Simple Java Interview Programs

Java program for swap two number

Swap two numbers means exchange the values of two variables with each other. For example variable num1 contains 10 and num2 contains 20 after swap there values num1 contains 20 and num2 contains 10

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Java - JavaStringPrograms/src/com/SwapNumber.java - Eclipse
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 ⊕ SwapNumber.java ⊠
                                                                                                          □ □ Console 🌣 🔳 💥 🖺 🔝 👺 🔛 💌 💌 🖜 🗆 🗆
                                                                                                                 <terminated> SwapNumber [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\j
     1 //Java Program to swap numbers using two variable
                                                                                                                 Before Swap :
       2 package com;
                                                                                                                X value :10
Y value :20
       4 public class SwapNumber {
                                                                                                                After Swap :
              public static void main(String[] args) {
   int x=10;
                                                                                                                X value :20
Y value :10
                   int y=20;
                    System.out.println("Before Swap :");
                   System.out.println("X value :"+x);
System.out.println("Y value :"+y);
                                                                   // prints 10
     10
                                                                   // prints 20
     11
                     x= x+y; // x= 10+20 = 30
y=x-y; // y= 30-20 = 10
x=x-y; // x= 30-10 = 20
                   System.out.println("After Swap :");
System.out.println("X value :"+x);
System.out.println("Y value :"+y);
                                                                    //prints X value : 20
                                                                    //prints v value : 10
      20
              }
     21
     22 }
                                                                                                  Writable
                                                                                                               Smart Insert 23:1
```

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Quick Access 🔛 🎉 Java 🔊 Java Browsing 💠 Debug 🔓 Git
<terminated> swap [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe
      1 // Java Program for Swapping numbers using 3 varibales
    2 package com;
                                                                                                               Before Swapping
                                                                                                               num1 value is=10
                                                                                                               num2 value is=20
       4 public class swap {
             public static void main(String[] args) {
                                                                                                               After Swapping
                                                                                                               num1 value is=20
                   int num1=10:
                     int num2=20;
                                                                                                               num2 value is=10
                    int temp;
System.out.println("Before Swapping");
                    System.out.println("num1 value is="+num1); //prints num1=10
System.out.println("num2 value is="+num2); //prints num2=20
     10
     11
     13
                    temp = num1; //store value in temp as 10
                    num1 = num2; //store value in num1 as 20
num2 = temp; //store value in num2 as 10
     14
     16
                    System.out.println("After Swapping");
System.out.println("num1 value is="+num1);    //print num1=20
System.out.println("num2 value is="+num2);    //print num2=10
     18
     19
     20
     21
     22
     23
     24
              }
     25
26 }
                                                                                                              Smart Insert 1:55
```

Java Program for Factorial of Number

Factorial means the product of all positive integers less than or equal to a given positive integer and denoted by that integer Example

```
5! = 5*4*3*2*1 = 120
```

Logic

	Condition	fact= fact* i	value of i
i=1	1<=5 True	fact= 1x1 =1	j++
i=2	2<=5 True	fact= 1x2 =2	j++
i=3	3<=5 True	fact=2*3=6	j++
i=4	4<=5 True	fact=6*4=24	j++
i=5	5<=5 True	fact= 24* 5= 120	j++
i=6	6<=5 False		

Java Program for Fibonacci Series

A series of numbers in which each number (*Fibonacci number*) is the sum of the two preceding numbers. The simplest is the series 1, 1, 2, 3, 5, 8, 13, 21, 34 etc.

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Logic

	i <count< th=""><th>n3=n1+n2</th><th>n1=n2</th><th>n2=n3</th><th>increment</th></count<>	n3=n1+n2	n1=n2	n2=n3	increment
			stores n2		
			value into	stores n3 value	
			n1	into n2	
i=2	2<10 True	n3= 0+1 =1	n1=1	n2=1	i++
i=3	3<10 True	n3= 1+1 =2	n1=1	n2=2	i++
i=4	4<10 True	n3=1+2= 3	n1=2	n2=3	j++
i=5	5<10 True	n3=2+3 =5	n1=3	n2=5	j++
i=6	6<10 True	n3=3+5=8	n1=5	n2=8	j++
i=7	7<10 True	n3=5+8=13	n1=8	n2=13	j++
i=8	8<10 True	n3=8+13=21	n1=13	n2=21	j++
i=9	9<10 True	n3=13+21=34	n1=21	n2=34	j++
i=10	10<10 False				

Java Program Reverse Number

Logic

	temp	Reverse	number
	temp=number %		
number > 0	10	Reverse=reverse*10+temp	number=number/10
1234 > 0 True	temp=1234 % 10=4	Reverse=0*10 + 4= 4	number=1234/10 = 123
123 > 0 True	temp= 123 % 10 = 3	Reverse= 4*10 + 3 = 43	number=1234/10 = 12
12 > 0 True	temp = 12%10 =2	Reverse= 43*10+2= 432	number= 12/10=1
1> 0 True	temp= 1%10=1	Reverse = 432*10+1= 4321	number= 1/10=0
0>0 False			