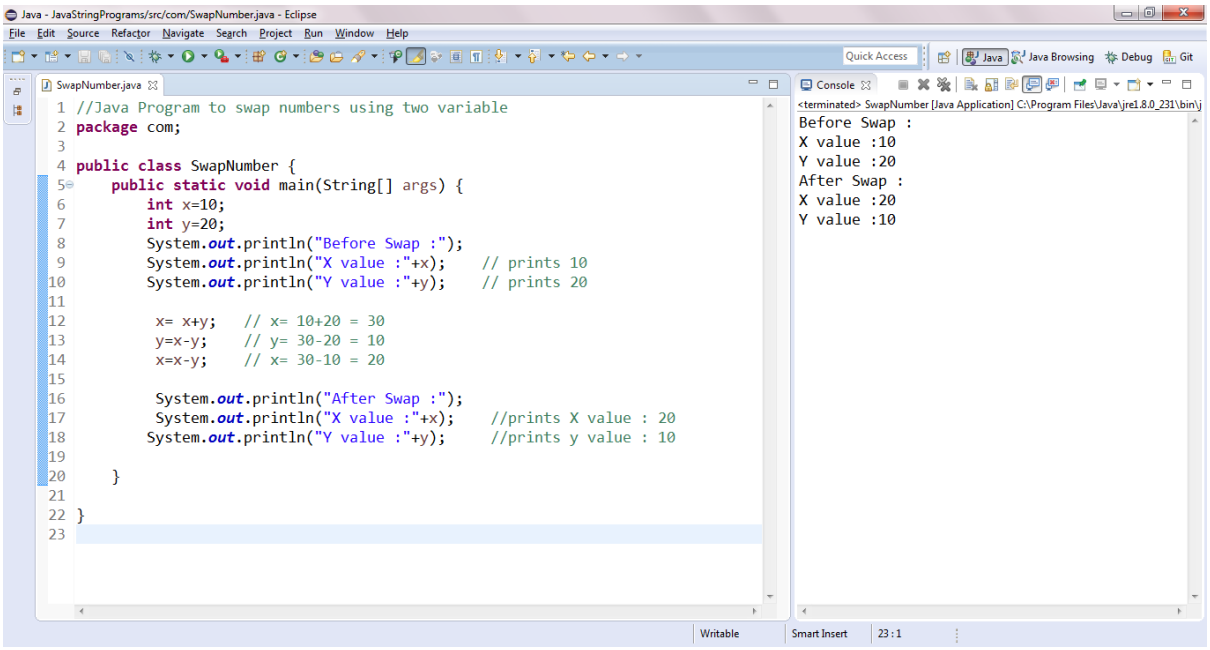
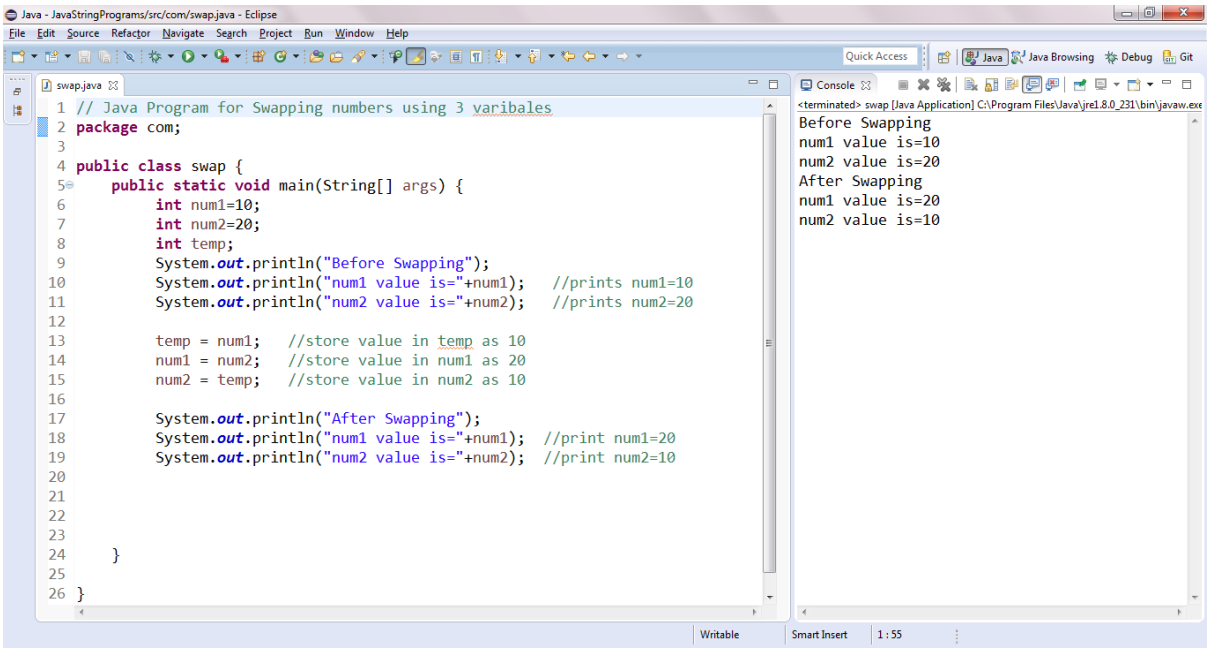
Simple Java Interview Programs

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



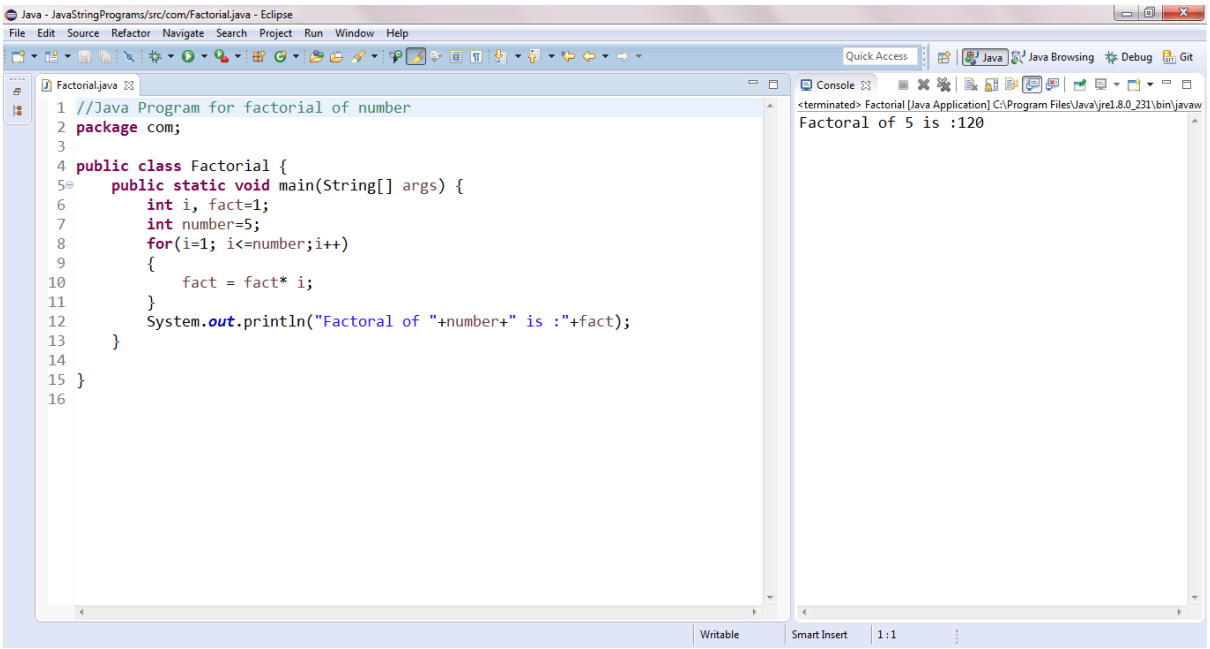


Java Program for Factorial of Number

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

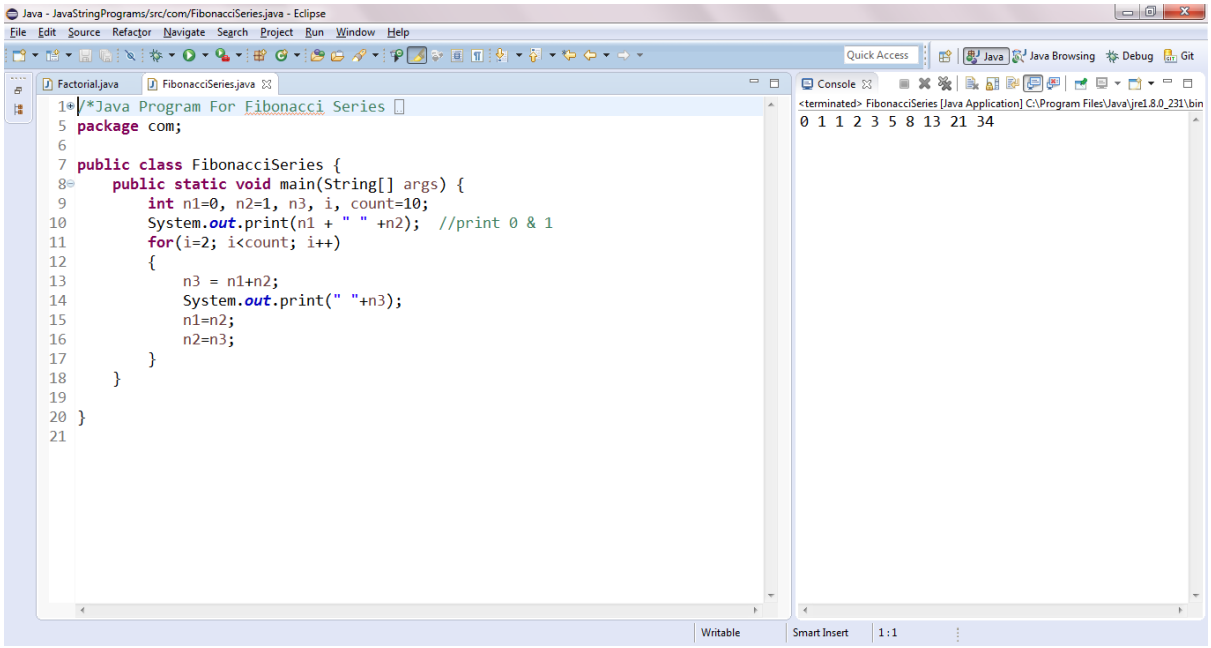


Logic

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

Java Program for Fibonacci Series

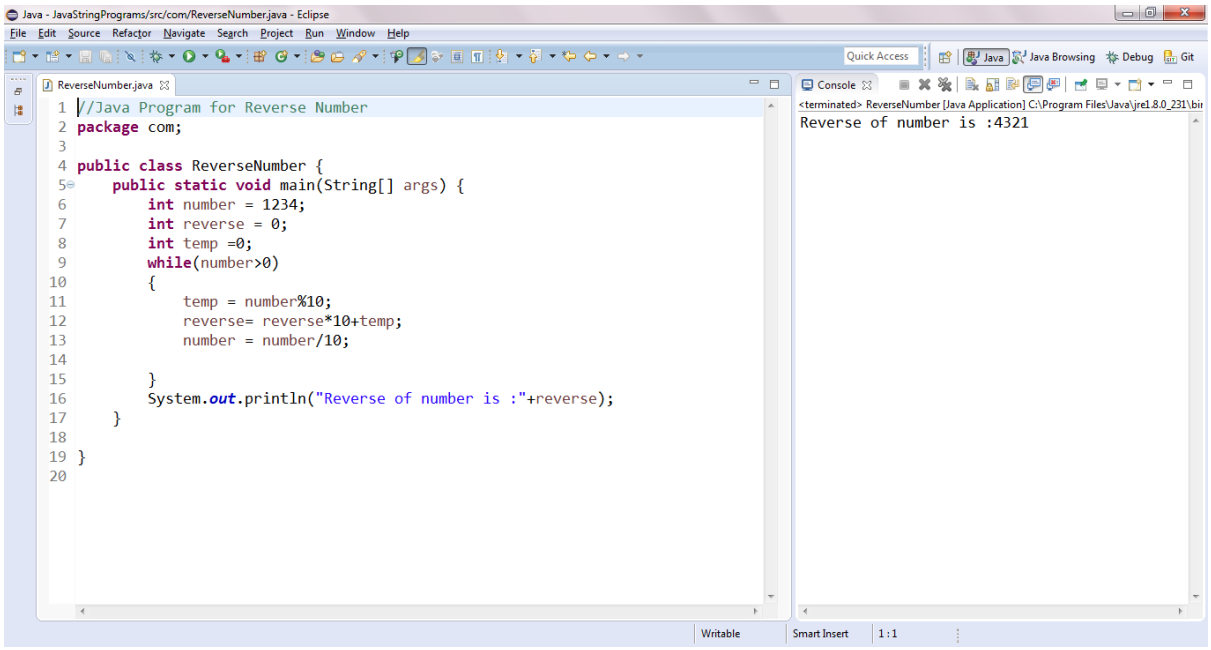
A series of numbers in which each number (*Fibonacci number*) is the sum of the two preceding numbers. The simplest is the series 1, 1, 2, 3, 5, 8, 13, 21, 34 etc.



Logic

	i<count	n3=n1+n2	n1=n2	n2=n3	increment
			stores n2 value into n1	stores n3 value 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	i++
i=5	5<10 True	n3=2+3 =5	n1=3	n2=5	i++
i=6	6<10 True	n3=3+5=8	n1=5	n2=8	i++
i=7	7<10 True	n3=5+8=13	n1=8	n2=13	i++
i=8	8<10 True	n3=8+13=21	n1=13	n2=21	i++
i=9	9<10 True	n3=13+21=34	n1=21	n2=34	i++
i=10	10<10 False				

Java Program Reverse Number



Logic

	temp	Reverse	number
number > 0	temp=number % 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			