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1  /*Design a Menu driven Java program to create a class Operators which has members-
2  operand1, operand2, result1, result2. The program should display the categories of
3  operators like Arithmetic, Logical, Relational and Arithmetic assignment. Include
4  four methods that calculates and displays the results of any two operations of its kind.
5  Pass the operands as parameters to the method, calculate the result and update the
6  members. Loop the choice this the user wishes to stop.*/
7  import java.util.Scanner;
8  class Operator{
9      int operand1,operand2,result1,result2;
10     void arithmetic(int op1,int op2){
11         System.out.println("ARITHMETIC CATEGORY:");
12         System.out.println();
13         result1=(op1+op2);
14         result2=(op1*op2);
15         System.out.println("Addition:"+result1);
16         System.out.println("Multiplication:"+result2);
17         System.out.println();
18     }
19     void relational(int op1,int op2){
20         System.out.println("RELATIONAL CATEGORY:");
21         System.out.println();
22         boolean m=op1>op2;
23         boolean n=op1<=op2;
24         if (m){
25             System.out.println(op1+" is greater than "+op2);
26         }
27         else{
28             System.out.println(op2+" is greater than "+op1);
29         }
30         if (n){
31             System.out.println(op1+" is less than or equal to "+op2);
32         }
33         else{
34             System.out.println(op2+" is less than or equal to "+op1);
35         }
36         System.out.println();
37     }
38     void assignment(int op1,int op2){
39         System.out.println("ASSIGNMENT CATEGORY:");
40         System.out.println();
41         boolean z=(op1==op2);
42         if (z){
43             System.out.println(op1+" is equal to "+op2);
44         }
45         else{
```

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<< fullarray_posneg.java operators.java >>
30     if (n){
31         System.out.println(op1+" is less than or equal to "+op2);
32     }
33     else{
34         System.out.println(op2+" is less than or equal to "+op1);
35     }
36     System.out.println();
37 }
38 void assignment(int op1,int op2){
39     System.out.println("ASSIGNMENT CATEGORY:");
40     System.out.println();
41     boolean z=(op1==op2);
42     if (z){
43         System.out.println(op1+" is equal to "+op2);
44     }
45     else{
46         System.out.println(op1+" is not equal to "+op2);
47     }
48     System.out.println();
49 }
50 void logical(int op1,int op2){
51     System.out.println("LOGICAL CATEGORY:");
52     System.out.println();
53     result1=(op1 & op2);
54     result2=(op1 | op2);
55     System.out.println("Bitwise and between "+op1+" and "+op2+" : "+result1);
56     System.out.println("Bitwise or between "+op1+" and "+op2+" : "+result2);
57     System.out.println();
58 }
59 }
60 class OperatorsMain{
61     public static void main(String args[]){
62         Scanner s=new Scanner(System.in);
63         Operator o=new Operator();
64         System.out.println("Input operand1:");
65         int o1=s.nextInt();
66         System.out.println("Input operand 2:");
67         int o2=s.nextInt();
68         o.arithmetic(o1,o2);
69         o.relatinal(o1,o2);
70         o.assignment(o1,o2);
71         o.logical(o1,o2);
72     }
73 }
```



C:\Program Files\Java\bin\basic>javac operators.java

C:\Program Files\Java\bin\basic>java OperatorsMain

Input operand1:

5

Input opearand 2:

7

ARITHMETIC CATEGORY:

Addition:12

Multiplication:35

RELATIONAL CATEGORY:

7 is greater than 5

5 is less than or equal to 7

ASSIGNMENT CATEGORY:

5 is not equal to 7

LOGICAL CATEGORY:

Bitwise and between 5 and 7 : 5

Bitwise or between 5 and 7 : 7

C:\Program Files\Java\bin\basic>_