

File Edit Source Refactor Navigate Search Project Run Window Help



Rectangle.java Rectangle.java X AdvancedArithmetic.java

```
1 package LAB;
2 /**2.. you will make a class 'Rectangle' and declare the variable length and breadth as private.
3 One Constructor will be used for initializing the value of variables. When an object is created,
4 the constructor will be called and the default value of the instance variables will be assigned.
5 Now create another new class 'RectangleTest' & create an object of class Rectangle and
6 assign values of the parameter used in constructor. Calculate area of the rectangle and print
7 it on the console. Let's update the new value of variable. And then read the updated value. */
8
9
10
11
12 class Rectangle {
13     private int length;
14     private int breadth;
15     Rectangle(int l,int b){
16         length=l;
17         breadth=b;
18     }
19
20 void calculateArea(){
21     int area=length*breadth;
22     System.out.println("The area is:"+area);
23 }
24 class RectangleTest{
25 public static void main(String...args) {
26     Rectangle ps=new Rectangle(10,10);
27     Rectangle psi=new Rectangle(40,40);
28     ps.calculateArea();
29     psi.calculateArea();
30 }
31 }
```

Problems Javadoc Declaration Console X

<terminated> AdvancedArithmetic [Java Application] C:\Program Files\Java\jdk-18.0.2\bin
The area is:100
The area is:1600

```
1 package LAB;
2
3 /*1. You are given a class AdvancedArithmetic which contains a method signature int
4 divisor_sum(int n). You need to write another class called MyCalculator which implements the
5 method.
6 divisorSum method just takes an integer as input and return the sum of all its divisors. For
7 example divisors of 6 are 1, 2, 3 and 6, so divisor_sum should return 12. The value of n will be at
8 most 1000.
9 Read the partially completed code in the editor and complete it. You just need to write the
10 MyCalculator class only. Your class shouldn't be public.*/
11
12 import java.util.Scanner;
13
14 public class AdvancedArithmetic {
15     void divisorsum(int n) {
16         int sum=0;
17         for(int i=1;i<=n;i++) {
18             if (n%i==0) {
19                 sum=sum+i;
20             }
21         }
22         System.out.println("The sum of all divisor:"+sum);
23     }
24
25     public static void main(String ...args) {
26         Scanner ps=new Scanner(System.in);
27         System.out.println("Enter the number:");
28         int n=ps.nextInt();
29         AdvancedArithmetic adv=new AdvancedArithmetic();
30         adv.divisorsum(n);
31     }
32 }
```

<terminated> AdvancedArithmetic (Java Application) C:\Program Files\Java\jdk-18.0.2\bin

Enter the number:

9

The sum of all divisor:13