

lab4/src/constructor/lab4.java - Spring Tool Suite 4

Search Project Run Window Help

lab4.java x

```
11     emp.displayInfo();
12 }
13 }
14
15 // Define Employee class
16 class Employee {
17     // Attributes
18     private int id;
19     private String name;
20     private double salary;
21
22     // Constructor
23     public Employee(int id, String name, double salary) {
24         this.id = id;
25         this.name = name;
26         this.salary = salary;
27     }
28
29     // Method to display employee information
30     public void displayInfo() {
31         System.out.println("Employee ID: " + id);
32         System.out.println("Employee Name: " + name);
33         System.out.println("Employee Salary: " + salary);
34     }
35 }
36 }
```

Outline x

- constructor
- lab4
 - main(String[]) : void
 - Employee
 - id : int
 - name : String
 - salary : double
 - Employee(int, String, double)
 - displayInfo() : void

Problems Javadoc Declaration Console x

<terminated> lab4 [Java Application] C:\Users\ELCOT\Desktop\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4

Employee ID: 143
Employee Name: Yohidha
Employee Salary: 10000.0

- shapes/src/method/shapes.java - Spring Tool Suite 4

Search Project Run Window Help

lab4.java *shapes.java

```
1 package method;
2
3 import java.util.Scanner;
4
5 public class shapes {
6
7     public static double areaOfTriangle(double base, double height) {
8         return 0.5 * base * height;
9     }
10
11     public static double areaOfRectangle(double length, double width) {
12         return length * width;
13     }
14
15     public static double areaOfCircle(double radius) {
16         return Math.PI * radius * radius;
17     }
18
19     public static void main(String[] args) {
20         Scanner scanner = new Scanner(System.in);
21
22         System.out.print("Enter the base of the triangle: ");
23         double base = scanner.nextDouble();
24         System.out.print("Enter the height of the triangle: ");
25         double height = scanner.nextDouble();
26         System.out.println("Area of Triangle: " + areaOfTriangle(base, height));
```

Outline

- method
 - shapes
 - areaOfTriangle(double, double)
 - areaOfRectangle(double, double)
 - areaOfCircle(double) : double
 - main(String[]) : void

Problems Javadoc Declaration Console

<terminated> shapes [Java Application] C:\Users\ELCOT\Desktop\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4

```
Enter the base of the triangle: 6
Enter the height of the triangle: 8
Area of Triangle: 24.0
Enter the length of the rectangle: 8
Enter the width of the rectangle: 10
Area of Rectangle: 80.0
Enter the radius of the circle: 2
Area of Circle: 12.566370614359172
```

Search Project Run Window Help

lab04.java ×

```
21     sortDescending(array);
22     System.out.println("Sorted Array (Descending): " + Arrays.toString(array));
23 }
24
25 // Method to reverse an array
26 public static void reverseArray(Integer[] array) {
27     Collections.reverse(Arrays.asList(array));
28 }
29
30 // Method to find the largest number in an array
31 public static int findLargest(Integer[] array) {
32     int max = array[0];
33     for (int num : array) {
34         if (num > max) {
35             max = num;
36         }
37     }
38     return max;
39 }
40
41 // Method to sort an array in descending order
42 public static void sortDescending(Integer[] array) {
43     Arrays.sort(array, Collections.reverseOrder());
44 }
45 }
46
```

Outline ×

array

- lab04
 - main(String[]) : void
 - reverseArray(Integer[]) : void
 - findLargest(Integer[]) : int
 - sortDescending(Integer[]) :

Problems Javadoc Declaration Console ×

<terminated> lab04 [Java Application] C:\Users\ELCOT\Desktop\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v...
Reversed Array: [25, 32, 88, 99, 13, 50, 42]
Largest Number: 99
Sorted Array (Descending): [99, 88, 50, 42, 32, 25, 13]

Search Project Run Window Help

student.java x subjectmarks.java

```
36     grade = 'A';
37 } else if (average >= 80) {
38     grade = 'B';
39 } else if (average >= 70) {
40     grade = 'C';
41 } else if (average >= 60) {
42     grade = 'D';
43 } else {
44     grade = 'F';
45 }
46 }
47
48 // Method to display the results
49 public void displayResults() {
50     System.out.println("\nTotal Marks: " + total);
51     System.out.println("Average Marks: " + average);
52     System.out.println("Grade: " + grade);
53 }
54
55 public static void main(String[] args) {
56     student s = new student(); // Corrected to use the correct class name
57     s.inputMarks();
58     s.calculateTotalAndAverage();
59     s.calculateGrade();
60     s.displayResults();
61 }
62 }
```

Outline x

subject
student

Problems Javadoc Declaration Console x

<terminated> student [Java Application] C:\Users\ELCOT\Desktop\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4

Subject 1: 90
Subject 2: 80
Subject 3: 80
Subject 4: 75
Subject 5: 90

Total Marks: 415
Average Marks: 83.0
Grade: B