Software Testing

LAB 2

Create a program in java to implement Logic to find third angle of a triangle. After that check the triangle type with respect to the angle.

```
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9
      public class JavaApplication1 {
10
          public static void main(String[] args) {
11
   12
               Scanner scanner = new Scanner(System.in);
13
14
15
               System.out.println("Enter the First angle of the triangle");
16
               int anglel = scanner.nextInt();
17
               System.out.println("Enter the second angle of the triangle");
18
               int angle2 = scanner.nextInt();
19
               int angle3 = 180 - angle1 - angle2;
20
21
22
               System.out.println("The third angle of the triangle is: " + angle3);
23
24
               if (angle1==angle2&&angle2==angle3) {
                   System.out.println("it is an equilateral traingle");
25
               } else if(anglel==angle2 || angle2==angle3||anglel==angle3){
26
                   System.out.println("it is an isosceles traingle");
27
28
                   System.out.println("it is an scalene triangle");
29
30
31
32
33
```

USECASES:

Test Case ID	Test Case	Input Data	Expected	Actual	Status
	Description		Outcome	Outcome	
TC-01	Inputting	30,60	The third	The third	Pass
	three angles		angle of the	angle of the	
	of an triangle		triangle is: 90	triangle is: 90	
			It is a right	It is a right	
			triangle.	triangle.	
TC-02	Inputting	110,40	The third	The third	Pass
	three angles		angle of the	angle of the	
	of an triangle		triangle is: 30	triangle is: 30	
			It is an	It is an	
			obtuse	obtuse	
			triangle.	triangle.	
TC-03	Inputting	60,60	The third	The third	Pass
	three angles		angle of the	angle of the	
	of an triangle		triangle is: 60	triangle is: 60	
			It is an acute	It is an acute	
			triangle.	triangle.	
TC-04	Inputting	-30,-60	Error: Angle	The third	Fail
	Negative		values	angle of the	
	angle values		cannot be	triangle is:	
			negative	270	
				It is an	
				obtuse	
				triangle.	
TC-05	Inputting	0,0	Error: Angle	The third	Fail
	zero angle		values	angle of the	
	values		cannot be	triangle is:	
			zero	180	
				It is an	
				obtuse	
				triangle.	
TC-06	Input angle	100,90	Error: invalid	The third	Fail
	values whose		inputs, since	angle of the	
	sum is		angles sum	triangle is: -	
	greater than		cannot	10	
	180		exceed 180	It is a right	
				triangle.	