1. Assignment Description : Developed a set of tests for an existing triangle classification program
2. Author : Aneri Shah
3. Summary :

Defective test results:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TestID | Input | Expected results | Actual results | Pass/Fail |
| testRightTriangleA | (3, 4, 5) | Right | InvalidInput | Fail |
| testRightTriangleB | (5, 3, 4) | Right | InvalidInput | Fail |
| testEquilateralTriangles | (1, 1, 1) | Equilateral | InvalidInput | Fail |
| testRightTriangleC | (5, 3, 4) | Right | InvalidInput | Fail |
| testIsocelesA | (1,1,2) | Isoceles | InvalidInput | Fail |
| testIsocelesB | (2,1,1) | Isoceles | InvalidInput | Fail |
| testIsocelesC | (1,2,1) | Isoceles | InvalidInput | Fail |
| testScalene | (7,12,15) | Scalene | InvalidInput | Fail |
| testNegative | (-1,2,3) | InvalidInput | InvalidInput | Pass |
| testNegatives | (-1,-2,-3) | InvalidInput | InvalidInput | Pass |
| testGreaterThan | (209,280,291) | InvalidInput | InvalidInput | Pass |
| testInvalidTriangle | (5,1,2) | NotATriangle | InvalidInput | Pass |
| testTypeCheck | ('a',1,2) | InvalidInput | InvalidInput | Fail |

Final test results:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TestID | Input | Expected results | Actual results | Pass/Fail |
| testRightTriangleA | (3, 4, 5) | Right | Right | Pass |
| testRightTriangleB | (5, 3, 4) | Right | Right | Pass |
| testEquilateralTriangles | (1, 1, 1) | Equilateral | Equilateral | Pass |
| testRightTriangleC | (5, 3, 4) | Right | Right | Pass |
| testIsocelesA | (1,1,2) | Isoceles | Isoceles | Pass |
| testIsocelesB | (2,1,1) | Isoceles | Isoceles | Pass |
| testIsocelesC | (1,2,1) | Isoceles | Isoceles | Pass |
| testScalene | (7,12,15) | Scalene | Scalene | Pass |
| testNegative | (-1,2,3) | InvalidInput | InvalidInput | Pass |
| testNegatives | (-1,-2,-3) | InvalidInput | InvalidInput | Pass |
| testGreaterThan | (209,280,291) | InvalidInput | InvalidInput | Pass |
| testInvalidTriangle | (5,1,2) | NotATriangle | NotATriangle | Pass |
| testTypeCheck | ('a',1,2) | InvalidInput | InvalidInput | Pass |

**Summary Report:**

|  |  |  |
| --- | --- | --- |
|  | Test Run 1 | Test Run 2 |
| Tests Planned | 13 | 13 |
| Tests Executed | 13 | 13 |
| Tests Passed | 4 | 13 |
| Defects Found | 9 | 0 |
| Defects Fixed | 0 | 13 |

1. **Honor pledge:** I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination.
2. **Detailed Result:** Tried to put all the inputs necessary for the three sides of the triangle.

A screenshot of a computer

Description automatically generated