Exercise:

Make test cases for a triangle that can differentiate between isosceles, equilateral, and scalene types based on sides length as input and state if their verdict is true/false.

Make assumptions for actual outcome.

Answer:

The Triangle has 3 sides which are:

1. Base

2. Hypotenuse

3. Perpendicular

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| Test Case ID | Test Case Description | Input Data | Expected Outcome | Actual Outcome | Verdict |
| TC\_01 | To check that if any side entered is not an integer. | Base = a  Hyp=3  Per=2,  Base= 7  Hyp=a  Per=9,  Base= 7  Hyp=9  Per=a | Message:  The data entered for the sides is not a number. |  |  |
| TC\_02 | To Check that if any side entered is equal to 0. | Base = 0  Hyp=3  Per=2,  Base= 7  Hyp=0  Per=9,  Base= 7  Hyp=9  Per=0 | Message:  The data entered for the sides is equal to 0. |  |  |
| TC\_03 | To show that it is a equilateral triangle if (B = H = P) | Base= 7  Hyp=7  Per=7 | Message: It is a Equilateral Triangle. |  |  |
| TC\_04 | To show that it is a isosceles triangle if any two sides are equal:  (B=H) or (H=P) or (P=B). | Base= 7  Hyp=9  Per=7 | Message: It is a Isosceles Triangle. |  |  |
| TC\_05 | To show that it is a scalene triangle if none of the sides are equal.  (B ≠ H ≠ P) | Base= 7  Hyp=9  Per=8 | Message: It is a Scalene Triangle. |  |  |
| TC\_06 | To Check if the value entered for the hypotenuse is the greatest. | Base = 3  Hyp=7  Per=6,  Base= 7  Hyp=9  Per=6 | Check the type of the triangle |  |  |