

# Lab 1: Testcases for Triangle App

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Subject: Software Testing Methodologies (SENG8041)

Testcase ID	Test Scenario	Test Data	Expected Outcome	Actual Outcome	Result
Triangle_01	Verify the result when three sides are equal	First Side : 6 Second Side : 6 Third Side : 6	Equilateral	Equilateral	Pass
Triangle_02	Verify the result when two sides are equal	First Side : 6 Second Side : 6 Third Side : 10	Isosceles	Isosceles	Pass
Triangle_03	Verify the result when all three sides are different	First Side : 5 Second Side : 6 Third Side : 7	Scalene	Scalene	Pass
Triangle_04	Verify the result when two sides are equal and third side is negative	First Side : 5 Second Side : 5 Third Side : -6	Invalid Input	Invalid Input	Pass
Triangle_05	Verify the result when two sides are equal and third side is decimal	First Side : 6 Second Side : 6 Third Side : 3.5	Invalid Input	Invalid Input	Pass
Triangle_06	Verify the result when two sides are equal and third side is alphabet	First Side : 6 Second Side : 6 Third Side : b	Invalid Input	Invalid Input	Pass
Triangle_07	Verify the result when all sides are zero	First Side : 0 Second Side : 0 Third Side : 0	Invalid Input	Invalid Input	Pass
Triangle_08	Verify the result when two sides are equal and third side is zero	First Side : 7 Second Side : 7 Third Side : 0	Invalid Input	Invalid Input	Pass

Triangle_09	Verify the result for scalene when sum of two sides is equal to third side	First Side : 2 Second Side : 3 Third Side : 5	Invalid Input	Invalid Input	Pass
Triangle_10	Verify the result for scalene when sum of two sides is less than third side	First Side : 1 Second Side : 2 Third Side : 5	Invalid Input	Invalid Input	Pass
Triangle_11	Verify the result when two sides are equal and third side is a special character	First Side : 3 Second Side : 4 Third Side : @	Invalid Input	Invalid Input	Pass
Triangle_12	Verify the result when third side has no input	First Side : 3 Second Side : 4 Third Side :	Invalid Input	Invalid Input	Pass
Triangle_13	Verify the result when all sides have larger value	First Side : 801025 Second Side : 845056 Third Side : 845000	Invalid Input	Invalid Input	Pass
Triangle_14	Verify the result for isosceles when sum of two sides is equal to third side	First Side : 2 Second Side : 2 Third Side : 4	Invalid Input	Invalid Input	Pass
Triangle_15	Verify the result for isosceles when sum of two sides is less than third side	First Side : 3 Second Side : 3 Third Side : 4	Invalid Input	Invalid Input	Pass
Triangle_16	Verify the result when one side is larger and second side is special character	First Side : 102563145 Second Side : \$ Third Side : 4	Invalid Input	Invalid Input	Pass
Triangle_17	Verify the result when all sides has random input	First Side : 1025.631.45 Second Side : 2345 Third Side : -56	Invalid Input	Invalid Input	Pass
Triangle_18	Verify the result when two sides are different and third side is negative	First Side : 5 Second Side : 2 Third Side : -6	Invalid Input	Invalid Input	Pass
Triangle_19	Verify the result when two sides are different and third side is decimal	First Side : 5 Second Side : 2 Third Side : 5.4	Invalid Input	Invalid Input	Pass
Triangle_20	Verify the result for equilateral when all sides are decimal	First Side : 1.6 Second Side : 1.6 Third Side : 1.6	Invalid Input	Invalid Input	Pass