**Lab 9**

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function square(side) {

if (side < 0) return -1; return side \* side;

}

function rectangle (length, breadth) {

if (length < 0 || breadth < 0) return -1; return length \* breadth;

}

function circle(radius) {

if (radius < 0) return -1;

return Math.PI \* radius \* radius;

}

function right\_triangle (base, height) {

if (base < 0 || height < 0) return -1; return 0.5 \* base \* height;

}

**Test Suite to verify:**

// Test cases for square function

console.assert (square(5) === 25, 'Failed: square(5)');

console.assert(square(-5) === -1, 'Failed: square(-5)'); console.assert(square(0) === 0, 'Failed: square(0)');

// Test cases for rectangle function

console.assert(rectangle(10, 5) === 50, 'Failed: rectangle(10,5)'); console.assert(rectangle(10,-5) === -1,'Failed: rectangle(10,-5)'); console.assert(rectangle(-10,-5)==-1,'Failed:rectangle(-10,-5)')

// Test cases for circle function const pi = Math.PI;

console.assert(circle(7).toFixed(2)== (pi\*49).toFixed(2), 'Failed: circle (7)') console.assert(circle(-7)==-1,'failed :circle (-7)')

// Test case for right\_triangle function

console.assert(right\_triangle (6 ,8)==24,'failed:right\_triangle (6 ,8)')