

```

/*
 *   A set of functions which calculate the areas of the following
 *   geometrical figures :
 *
 *       -> Square           (side * side)
 *       -> Rectangle       (length * breadth)
 *       -> Trapezium        ((1/2) * (sum of parallel sides) * height)
 */

class Area {
    public static double area (double side) {                // Square
        return area(side, side);
    }
    public static double area (double length, double breadth) {    // Rectangle
        return area(length, length, breadth);
    }
    public static double area (double a, double b, double height) { // Trapezium
        return 0.5 * (a + b) * height;
    }
}

```