Online: 2   Date: 20 January, 2021   Group: B2   Time: 25 minutes

Project Name: TestQuadrilateral (main class)

	Marks
Class: **Quadrilateral** Private Variable: **type** (String), **quadArea** (double) Design the class (getter setter, constructers) as per your requirements.	**2**
Class: **CreateQuadrilateral** Create <u>3</u> <u>overloaded</u> methods typed **generateQuad()** whose return type is **Quadrilateral.** The methods calculate the quadAreas according to the number of parameters. Then assigns the quadArea and type to the Quadrilateral object and returns it.	
generateQuad(double side) quadArea = $side^2$ type = Square	**3**
generateQuad(double side, double base) quadArea = base x side type =Rectangle	**3**
generateQuad(double side1, double side2, double height) quadArea= (1/2) x (side1+ side2) *height type = Trapezium	**3**
Now create the object of **CreateQuadrilateral** class and call all the 3 overloaded methods. Then print the **types** and **quadAreas** from the objects generated by the methods. **Take user input wherever needed.**	**4**
Total:	**15**

Sample Input	Sample Output
Input 1 value: 4 Input 2 values: 5 7 Input 3 values: 2 3 4	Square Area: 16.0 Rectangle Area: 35.0 Trapezium Area: 10.0

.....