Ahsanullah University of Science and Technology Course Title: Object Oriented Programming Lab Course Number: CSE1206

Offline – 03 Set - B Project Name: TestQuadrilateral (main class)

Marks

Class: Quadrilateral	2	
Private Variable: type (String), quadArea (double)		
Design the class (getter setter, constructers) as per your requirements.		
Class: CreateQuadrilateral		
Create 3 overloaded 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)	3	
$quadArea = side^2$		
type = Square		
generateQuad(double side, double base)	3	
quadArea = base x side		
type =Rectangle		
generateQuad(double side1, double side2, double height)	3	
generate Quad (double side i, double sidez, double neight)	3	
quadArea= (1/2) x (side1+ side2) *height		
type = Trapezium		
Now create the object of CreateQuadrilateral class and call all the 3 overloaded	4	
methods. Then print the types and quadAreas from the objects generated by the		
methods.		
Take user input wherever needed.		

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