North South University

Department of Electrical and Computer Engineering

Course Code :   CSE 215L (Programming Language II Lab)

Topic(s)   :   Lab – 11 (Interface)

Lab Task:

1. Triangle and Circle both classes implement an interface named GeometricShape. Convert the following UML diagrams into Codes.

GeometricShape <<interface>>
+ *getArea(): double*

Triangle	Circle
- base: double - height: double	- radius: double

// constructors
// setters
// getters
+ getArea(): double // 0.5*b*h
+ toString(): String
	// constructors
	// setters
	// getters
	+ getArea(): double // 2*PI*r
	+ toString(): String

Now write a test program that performs the following steps:

- Create a Triangle instance by user input values and print its properties and area
- Create a Circle instance by user input values and print its properties and area