## **North South University**

# **Department of Electrical and Computer Engineering CSE 215L: Programming Language II Lab**

### Lab – 11: Abstract Class & Interface

### **Objective:**

- To understand abstract class
- To understand interface

#### Task:

1. Implement the following classes:

Shape	Rec
- name: String + Shape(name: String) /* accessor-mutator */ + area(): double + perimeter(): double	- length: doul - width: doub
	+ Rectangle(r width: double) /* accessor-m + area(): double + perimeter():

ctangle extends Shape

- ıble
- ble
- (name: String, length: double,
- nutator \*/
- ıble
- : double

2. Implement the following classes and invoke discountedPrice() for object of each class.

<<interface>> Discountable discountedPrice(price: double): double

PercentageDiscount

- percentage: double
- + PercentageDiscount(percentage:
- + getPercentage(): double
- + setPercentage(percentage: double): void
- + discountedPrice(price: double): double

ThresholdDiscount

- threshold: double
- discount: double
- + ThresholdDiscount(threshold: double, discount: double)
- + getThreshold(): double
- + getDiscount(): double
- setThreshold(threshold: double): void
- + setDiscount(discount: double): void
- + discountedPrice(price: double): double