

**North South University**  
**Department of Electrical and Computer Engineering**  
**CSE 215L: Programming Language II Lab**

**Lab – 7: Class & Object**

**Objective:**

- To learn about class and objects
- To learn to implement a class using UML

**Task:**

Implement the following classes, each on a separate file:

Point
- x: int - y: int
+ Point(x: int, y: int) + Point() + getX(): int + getY(): int + setX(x: int): void + setY(y: int): void + toString(): String + distance(point: Point): double

Line
- start: Point - end: Point
+ Line(start: Point, end: Point) + Line(x1: int, y1: int, x2: int, y2: int) + getStart(): Point + getEnd(): Point + setStart(start: Point): void + setEnd(end: Point): void + length(): double

Now create a Line object and invoke the length() method.