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

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

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