Lebanese University
IUT - Saida
CCNE II

## OOP - Lab 5

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## Exercise 1:

1. Write a class Square that has two attributes:

- L: number (length of a side)

- C: character

- 2. Write the properties for each attribute.
- 3. Write the following methods:
- The constructors.
- Area: give the area of the square
- Perimeter: give the area of the square
- Display: display the square
- Extend: extend the length of the square

Extend(2) => L\*2

4. Write a program which displays the same output as the picture.

## Exercise 2:

Write a class called **Point** which contains two attributes as following:

- x represents the x-axis (real number)
- y represents the y-axis (real number)
- 1. Write properties for all attributes.
- 2. Write two constructors (one of them should initialize values of a point)
- 3. Write the following methods:
  - **Input** which reads values from the user and modify the current point.
  - **Display** which display the coordinates of the current point.
  - **translate** which takes 2 values and translate the current point.
  - **Distance** which returns the distance<sup>2</sup> between the current point and a point.

## 4. Write a program which:

Asks to create two points P1 and P2.

Displays them.

Displays the distance between them.

Asks to give 2 integers a and b and Translate the point **P1** by using a and b.

Output: