

# Python Class Definitions (Without Code)

## 1. Class with two methods:

- getString: to get a string from console input.
- printString: to print the string in uppercase.

## 2. Shape class and its subclass Square:

- Shape has an area method that returns 0 by default.
- Square inherits from Shape and has a length attribute.
- Square overrides the area method to return the square of its length.

## 3. Rectangle class inheriting from Shape:

- Rectangle has length and width attributes.
- It overrides the area method to return length \* width.

## 4. Point class with three methods:

- show: Displays the coordinates of the point.
- move: Changes the coordinates of the point.
- dist: Computes the distance between two points.

## 5. Bank Account class with attributes and methods:

- Attributes: owner, balance.
- Methods:
  - deposit: Adds money to the balance.
  - withdraw: Deducts money from the balance but cannot exceed available funds.

## 6. Filtering prime numbers:

- Uses the filter function and lambda expressions.
- Checks if numbers in a list are prime.