

## Assignment4

You should follow the instructions in order to follow this assignment :

Create a class with a method that prints "This is going to be my parent class" and its subclass with another method that prints "This is a child class that is being created". Now, create an object for each of the class and call

- 1 - method of parent class by object of parent class
- 2 - method of child class by object of child class
- 3 - method of parent class by object of child class

Create a class named 'Member' having the following members:

- 1 - Name
- 2 - Age
- 3 - Phone number
- 4 - Address
- 5 – Salary

It also has a method named 'printSalary' which prints the salary of the members. Two classes 'Employee' and 'Manager' inherits the 'Member' class. The 'Employee' and 'Manager' classes have data members 'specialization' and 'department' respectively. Now, assign name, age, phone number, address and salary to an employee and a manager by making an object of both of these classes and print the same.

Create a class named 'Rectangle' with two data members 'length' and 'breadth' and two methods to print the area and perimeter of the rectangle respectively. Its constructor having parameters for length and breadth is used to initialize length and breadth of the rectangle. Let class 'Square' inherit the 'Rectangle' class with its constructor having a parameter for its side (suppose s) calling the constructor of its parent class as 'super(s,s)'. Print the area and perimeter of a rectangle and a square.

Now repeat the above example to print the area of 10 squares.  
Hint-Use array of objects

Create a class named 'Shape' with a method to print "This is a shape class of different objects". Then create two other classes named 'Rectangle', 'Circle' inheriting the Shape class, both having a method to print "This is rectangular shape" and "This is circular shape" respectively. Create a subclass 'Square' of 'Rectangle' having a method to print "Square is a rectangle". Now call the method of 'Shape' and 'Rectangle' class by the object of 'Square' class.