PROGRAMS BASED ON CLASSES AND OBJECTS

- Design a class named Rectangle to represent a rectangle. The class contains:
 Two double data fields named width and height that specify the width and height of the rectangle. The default values are 1 for both width and height.
 - (i) A default constructor that creates a default rectangle.
 - (ii) A constructor that creates a rectangle with the specified **width** and **height**.
 - (iii) A method named **getArea()** that returns the area of this rectangle.
 - (iv)A method named **getPerimeter()** that returns the perimeter.
 - Implement the class. Write a test program that creates two **Rectangle** objects—one with width **5** and height **50** and the other with width **2.5** and height **45.7**. Display the width, height, area, and perimeter of each rectangle in this order.
- Write a Java program to create a class called Student having data members Regno, Name, Course being studied and current CGPA. Include constructor to initialize objects. Create array of objects with at least 10 students and find 9pointers.
- 3. Write a Java program that displays that displays the time in different formats in the form of HH,MM,SS using constructor Overloading.