- Create a class representing a "Book" with attributes such as title, author, and price.
 Implement a parameterized constructor to initialize these attributes and methods to display book details.
- 2. Develop a program to demonstrate constructor overloading by creating multiple constructors for a class.
- 3. Design a class hierarchy for different types of vehicles (e.g., Car, Bike, Truck) with common attributes like make, model, and year. Implement inheritance to avoid code duplication. Include a superclass "Vehicle" with methods like start() and stop(). Override these methods in subclasses to provide specific implementations for each type of vehicle.
- Write a Java program to perform the following operations on an array:
 Find the maximum and minimum elements.
 Calculate the sum and average of the elements.
 Reverse the array.
- 5. Create an interface "Shape" with a method calculateArea(). Implement this interface with classes representing different geometric shapes (e.g., Circle, Rectangle, Triangle). Use polymorphism to calculate and display the area of each shape.
- 6. Design a class representing a "BankAccount" with private attributes such as account number, balance, and account holder name. Use encapsulation to provide public methods for deposit, withdrawal, and displaying account details while ensuring data integrity.
- 7. Create a base class Person with attributes like name and age. Create a derived class Student that adds an attribute for student ID. Write methods to display the details of both classes.
- 8. Write a Java program which will contain the user-defined package Calculator with all 4 basic arithmetic operations in a class and another class in package will contain operations like Square and Square Root (use Math.sqrt()) method.
- 9. Write a Java program to calculate the area and perimeter of a rectangle.
- 10. Write a Java program to perform division of two numbers and handle the ArithmeticException if the denominator is zero.
- 11. Create a program to find the factorial of a given number using iterative approaches.
- 12. Implement a simple calculator program that performs basic arithmetic operations (addition, subtraction, multiplication, division).
- 13. Implement a program that reads a sequence of integers from the user until a negative number is entered, then calculates and displays the sum and average of the entered numbers.

- 14. Write a Java program to check whether a given year is a leap year or not from user input.
- 15. Create a program to find the largest and smallest elements in an array of integers.
- 16. Write a program to find the sum of elements in a 2D array and calculate the average.
- 17. Implement a method to check whether a given number is prime or not, and use it to find all prime numbers within a given range.
- 18. Using static method with the implementation of constructor write a program to implement counter.
- 19. Create a simple calculator using Java Swing that can perform basic arithmetic operations.