

C++ Classes and Objects Exercises

Exercise 1: Book Class

Create a Book class with attributes such as title, author, and ISBN. Include methods to display book details and set book details.

Exercise 2: Bank Account Class

Design a BankAccount class with methods like deposit, withdraw, and getBalance. Ensure you have a constructor to set an initial balance.

Exercise 3: Student Class

Create a Student class with attributes like name, rollNumber, and marks. Implement methods to calculate the grade based on the marks.

Exercise 4: Car Class

Develop a Car class that contains attributes like make, model, year, and speed. Include methods like accelerate and brake.

Exercise 5: Library System

Develop a Library class that contains a collection of books (Book objects). Implement methods to add a book, remove a book, and display all books.

Exercise 6: Employee Class

Create an Employee class with attributes like name, id, designation, and salary. Include methods to give a salary hike based on performance.

Exercise 7: Mobile Phone Class

Create a MobilePhone class with attributes like brand, model, price, and batteryLife. Implement methods to check if the phone is affordable based on a given budget.