

Question 1:

Student Class: Create a Student class with attributes name, age, and grade. Implement methods to set and get these attributes. Write a displayInfo() method to display the student's information.

Question 2:

Bank Account: Transactions Design a BankAccount class with attributes accountNumber and balance. Implement methods deposit(double amount) and withdraw(double amount) to handle account transactions. Ensure that withdrawals cannot exceed the available balance.

Question 3:

Library System: Create a Library class that contains an array of Book objects. The Book class should have attributes title, author, and isbn. Implement methods to add books to the library, display the list of available books, and search for a book by title or author.

Question 4:

Employee Payroll: Design an Employee class with attributes name, id, and salary. Implement a method calculateBonus(double percentage) that calculates and adds a bonus to the employee's salary. Create an array of employees and apply the bonus to each employee.

Question 5:

Calculator Operations: Develop a Calculator class that can perform basic arithmetic operations like addition, subtraction, multiplication, and division. Implement methods for each operation and a calculate () method that takes operator and operands as input and returns the result.

Question 6:

Bank System: Build a complete banking system with classes Bank, Customer, and Account. Customers can open multiple types of accounts like savings and checking. Implement methods for deposits, withdrawals, transferring funds, and calculating interest.