

1. Create a Student Class with Multiple Constructors

Problem:

Create a Student class with three constructors:

- **No-argument constructor** that sets name = "Unknown" and age = 18.
- **Constructor with one parameter (name)** and sets age to 18.
- **Constructor with two parameters (name and age)**.

Write a main method to create objects using different constructors and print the values.

2. Bank Account Constructor with Initial Balance

Problem:

Create a class BankAccount with:

- **A constructor that takes accountNumber and initialBalance as parameters.**
 - **A method displayBalance() to show account details.**
 - **Create an object of BankAccount in main and display the details.**
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3. Employee Constructor Overloading

Problem:

Create an Employee class with **constructor overloading**:

- **Constructor with name and salary.**
 - **Constructor with name, salary, and department.**
 - **A method displayEmployeeDetails() to print the details.**
 - **In main, create objects using different constructors and display employee details.**
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4. Copy Constructor in Java

Problem:

Create a Book class with:

- **A constructor that takes title and author as parameters.**
- **A copy constructor** that creates a new book object from an existing one.

- A method display() to print book details.
 - Create an object, copy it using the copy constructor, and display both objects' details.
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5. Vehicle Constructor with Default and Parameterized Versions

Problem:

Create a Vehicle class with:

- **A default constructor that sets brand = "Unknown" and year = 2000.**
- **A parameterized constructor that sets brand and year.**
- A method display() to print vehicle details.
- In main(), create objects using both constructors and display their details.