

1. Write a simple program that prints "Hello, World!" to the console. write a simple program that prints "Hello, World!" to the console.
2. Create a basic calculator that can perform addition, subtraction, multiplication, and division.
3. Write a program that calculates and prints the sum of integers from 1 to N, where N is taken as user input.
4. Create a program that finds the maximum and minimum values in an array of integers.

5.

### **Bank Account System**

Consider a simple bank account system where you have customers and their bank accounts. Each customer has a name, a unique identifier, and can have one or more bank accounts. Each bank account has an account number, a balance, and belongs to a specific customer.

Design a set of Java classes to model this bank account system. Your implementation should include the following features:

#### **Customer Class:**

- Attributes: name, customerID, bankAccount
- Methods: getters and setters, a method to add a bank account, a method to display customer information, methods to deposit and withdraw money

#### **BankAccount Class:**

- Attributes: accountNumber, balance
- Methods: getters and setters, a method to deposit money, a method to withdraw money, a method to display account information.

Create customer and bankAccount objects.

And only using the customer object, deposit or withdraw money.