## **Problem 1 String Analysis**

## **Problem 2 Matrix Operations**

```
public class SimpleMatrixOperations {
              public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
                     System.out.print("Enter rows and columns: ");
                    int rows = sc.nextInt();
                    int cols = sc.nextInt();
                    int[][] a = new int[rows][cols];
int[][] b = new int[rows][cols];
int[][] sum = new int[rows][cols];
int[][] diff = new int[rows][cols];
int[][] prod = new int[rows][cols];
v 2 📭 🌣 😘
                                                                                                    input
Enter first matrix:
4 5
6 7
Enter second matrix:
7 6
1 2
Addition and Subtraction:
11 11
7 9
Subtraction:
-3 -1
5 5
Multiplication:
33 34
49 50
```

## **Problem 3 Basic Banking System**

```
Current File
      1 import java.util.Scanner;
     3 class BankAccount {
              private String name;
private String accountNumber;
private double balance;
             public BankAccount(String name, String accountNumber, double balance) {
    this.name = name;
    this.accountNumber = accountNumber;
    this.balance = balance;
Enter Name: Ananya Goel
Enter Account Number: 743870127FS
                                                                                                   input
 Enter Initial Balance: 5000
 1. Deposit
 2. Withdraw
 3. Account Details
 4. Exit
 Choose an option: 1
 Enter deposit amount: 7000
 Deposited: 7000.0
1. Deposit
2. Withdraw
 3. Account Details
 4. Exit
Choose an option: 4
Thank you for using the banking system!
```