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StringAnalysis.java

```java
import java.util.Scanner;

public class StringAnalysis {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a string: ");
        String input = scanner.nextLine();

        int vowels = 0, consonants = 0, digits = 0, specialChars = 0;

        input = input.toLowerCase(); // Convert to lowercase for uniform comparison

        for (char ch : input.toCharArray()) {
            if (Character.isLetter(ch)) {
                if ("aeiou".indexOf(ch) != -1) {
                    vowels++;
                } else {
                    consonants++;
                }
            } else if (Character.isDigit(ch)) {
                digits++;
            } else if (!Character.isWhitespace(ch)) {
                specialChars++;
            }
        }

        System.out.println("Vowels: " + vowels);
```

input

```
Enter a string: Hello World 2024
Vowels: 3
Consonants: 7
Digits: 4
Special Characters: 0


...Program finished with exit code 0
```

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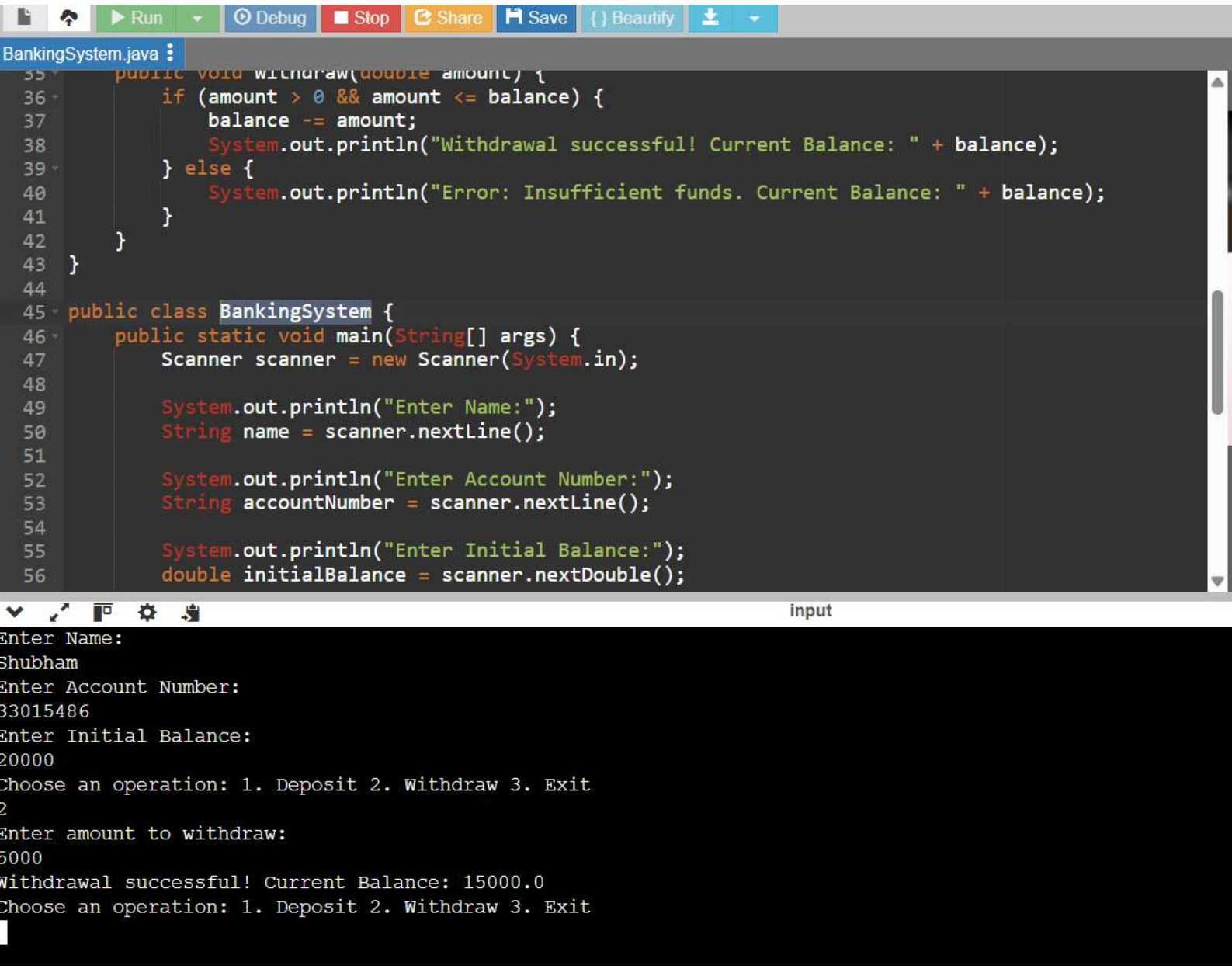
MatrixOperations.j...

```java

public class MatrixOperations {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter dimensions of matrices (rows and columns): ");
        int rows = scanner.nextInt();
        int cols = scanner.nextInt();

        int[][] matrix1 = new int[rows][cols];
        int[][] matrix2 = new int[rows][cols];

        System.out.println("Enter elements of Matrix 1:");
        inputMatrix(scanner, matrix1);

        System.out.println("Enter elements of Matrix 2:");
        inputMatrix(scanner, matrix2);

        System.out.println("Addition:");
        printMatrix(addMatrices(matrix1, matrix2));

        System.out.println("Subtraction:");
```

input

```
Enter dimensions of matrices (rows and columns):
2 2
Enter elements of Matrix 1:
1 2 3 4
Enter elements of Matrix 2:
5 6 7 8
Addition:
6 8
10 12
Subtraction:
-4 -4
-4 -4
Multiplication:
19 22
```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BankingSystem.java
public void withdraw(double amount) {
if (amount > 0 && amount <= balance) {
balance -= amount;
System.out.println("Withdrawal successful! Current Balance: " + balance);
} else {
System.out.println("Error: Insufficient funds. Current Balance: " + balance);
}
}
}
public class BankingSystem {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.println("Enter Name:");
String name = scanner.nextLine();
System.out.println("Enter Account Number:");
String accountNumber = scanner.nextLine();
System.out.println("Enter Initial Balance:");
double initialBalance = scanner.nextDouble();
input
Enter Name:
Shubham
Enter Account Number:
33015486
Enter Initial Balance:
20000
Choose an operation: 1. Deposit 2. Withdraw 3. Exit
2
Enter amount to withdraw:
5000
Withdrawal successful! Current Balance: 15000.0
Choose an operation: 1. Deposit 2. Withdraw 3. Exit