1. . **Java program to reverse a StringBuffer containing "Hello World":**

public class Main {

public static void main(String[] args) {

StringBuffer sb = new StringBuffer("Hello World");

sb.reverse();

System.out.println("Reversed StringBuffer: " + sb);

}

}

1. . **Program that tracks a user's monthly expenses and totals them at the end:**

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

double totalExpenses = 0;

int numberOfExpenses;

System.out.print("Enter the number of expenses: ");

numberOfExpenses = scanner.nextInt();

for (int i = 1; i <= numberOfExpenses; i++) {

System.out.print("Enter expense " + i + ": ");

double expense = scanner.nextDouble();

totalExpenses += expense;

}

System.out.println("Total monthly expenses: " + totalExpenses);

}

}

1. Java program that initializes a StringBuffer with extra spaces and trims the whitespace from both ends:

public class Main {

public static void main(String[] args) {

StringBuffer sb = new StringBuffer(" Hello World ");

System.out.println("Before trimming: \"" + sb + "\"");

// Trim whitespace from both ends

String trimmedString = sb.toString().trim();

System.out.println("After trimming: \"" + trimmedString + "\"");

}

}

1. . **Java program to find the second largest element in an array:**

public class Main {

public static void main(String[] args) {

int[] arr = {12, 34, 56, 89, 23, 67, 45};

int firstLargest = Integer.MIN\_VALUE;

int secondLargest = Integer.MIN\_VALUE;

for (int num : arr) {

if (num > firstLargest) {

secondLargest = firstLargest;

firstLargest = num;

} else if (num > secondLargest && num != firstLargest) {

secondLargest = num;

}

}

System.out.println("Second largest element: " + secondLargest);

}

}

1. Program to print the length of a given string:

public class Main {

public static void main(String[] args) {

String str = "Hello World";

int length = str.length();

System.out.println("Length of the string: " + length);

}

}