**Strings in Java**

**1. Write a simple String program to take input from the user.**

import java.util.Scanner;

public class UserInputString {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a string: ");

String input = scanner.nextLine();

System.out.println("You entered: " + input);

scanner.close();

}

}

**2. How do you concatenate two strings in Java? Give an example.**

public class StringConcatenation {

public static void main(String[] args) {

String str1 = "Hello";

String str2 = "World";

String result = str1 + " " + str2;

System.out.println("Concatenated String: " + result);

}

}

**3. How do you find the length of a string in Java? Explain with an example.**

public class StringLength {

public static void main(String[] args) {

String str = "Hello World";

int length = str.length();

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

}

}

**4. How do you compare two strings in Java? Give an example.**

public class StringComparison {

public static void main(String[] args) {

String str1 = "Hello";

String str2 = "hello";

// Case-sensitive comparison

if (str1.equals(str2)) {

System.out.println("The strings are equal.");

} else {

System.out.println("The strings are not equal.");

}

// Case-insensitive comparison

if (str1.equalsIgnoreCase(str2)) {

System.out.println("The strings are equal (ignoring case).");

} else {

System.out.println("The strings are not equal (ignoring case).");

}

}

}

5**. Write a program to find the length of the string "refrigerator".**

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public class FindStringLength {

public static void main(String[] args) {

String str = "refrigerator";

int length = str.length();

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

}

}

**6. Write a program to check if the letter 'e' is present in the word 'Umbrella'.**

public class CheckCharacter {

public static void main(String[] args) {

String word = "Umbrella";

if (word.contains("e")) {

System.out.println("The letter 'e' is present in the word 'Umbrella'.");

} else {

System.out.println("The letter 'e' is not present in the word 'Umbrella'.");

}

}

}

**7. Write a program to delete all consonants from the string "Hello, have a good day".**

public class RemoveConsonants {

public static void main(String[] args) {

String str = "Hello, have a good day";

String result = str.replaceAll("[b-df-hj-np-tv-zB-DF-HJ-NP-TV-Z]", "");

System.out.println("String after removing consonants: " + result);

}

}