Write a program to arrange the letters of the word alphabetically in reverse order

CODE:

import java.util.Scanner;

public class ReverseAlphabeticalOrder {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

String word = scanner.nextLine();

String reversedWord = reverseAlphabeticalOrder(word);

System.out.println("Word arranged alphabetically in reverse order: " + reversedWord);

scanner.close();

}

public static String reverseAlphabeticalOrder(String word) {

char[] charArray = word.toCharArray();

// Bubble sort to arrange characters in reverse alphabetical order

for (int i = 0; i < charArray.length - 1; i++) {

for (int j = 0; j < charArray.length - i - 1; j++) {

if (charArray[j] < charArray[j + 1]) {

char temp = charArray[j];

charArray[j] = charArray[j + 1];

charArray[j + 1] = temp;

}

}

}

// Construct the reversed word from the character array

return new String(charArray);

}

}

OUTPUT:

C:\javap>javac ReverseAlphabeticalOrder.java

C:\javap>java ReverseAlphabeticalOrder

Enter a word: Likitha

Word arranged alphabetically in reverse order: tkiihaL

