```
public class Main {
  public static String concatenateStrings(String str1, String str2) {
    int len1 = str1.length();
    int len2 = str2.length();
    // Create a char array large enough to hold all characters from the four strings
    char[] result = new char[len1 + len2];
    int i = 0;
    // Copy characters from str1
    while (i < len1) {
       result[i] = str1.charAt(i);
       i++;
    }
    // Copy characters from str2
    int j = 0;
    while (i < len1 + len2) {
       result[i] = str2.charAt(j);
       i++;
       j++;
    }
    // Return the concatenated string
    return new String(result);
```

```
public static void main(String[] args) {
   String str1 = "Herminio";
   String str2 = "Lloveras";

   // Call the method with 4 strings
   String concatenatedString = concatenateStrings(str1, str2);
   System.out.println("Concatenated string: " + concatenatedString);
}
```