

Script started on Mon Feb 11 22:54:25 2019

elijahkorneffel@Elijahs-MacBook-Pro □ ~/Git/CS2261-JAVA/Project1 □ □ 02_11_19 ● □ cat
StringCompare.java

//This program compares to strings for common root

import java.util.Scanner;

import java.lang.Math;

public class StringCompare

{

public static void main(String[] args)

{

Scanner input = new Scanner(System.in);

String common = null;

System.out.print("Enter string1 and hit \"Enter\": ");

String string1 = input.nextLine();

System.out.print("Enter string2 and hit \"Enter\": ");

String string2 = input.nextLine();

common = compareStrings(string1, string2);

if(common == null)

{

System.out.println("The strings have no common prefix.");

}

else

{

System.out.println("The common prefix is: " + common);

}

}

//This method compares two given strings and returns common prefix

public static String compareStrings(String string1, String string2)

{

String response = "";

int limiter = 0;

int prefixEnd = 0;

if(string1.length() >= string2.length())

{

limiter = string2.length();

} //Decides which length to use when traversing

```

else
{
    limiter = string1.length();
}

//Traverses the strings to see if consecutive chars are equal.
for(int i = 0; i < limiter; i++)
{
    if(string1.charAt(i) == string2.charAt(i))
    {
        prefixEnd += 1;
    }
    else if(i <= 0)
    {
        return null;//return a blank string if none are equal
    }
    else//Exits once the prefix is not equal
    {
        break;
    }
}

return string1.substring(0,prefixEnd);
}
}
elijahkorneffel@Elijahs-MacBook-Pro ~/Git/CS2261-JAVA/Project1 02_11_19 •
javac StringCompare.java
elijahkorneffel@Elijahs-MacBook-Pro ~/Git/CS2261-JAVA/Project1 02_11_19 •
java StringCompare
Enter string1 and hit "Enter": Hello, World
Enter string2 and hit "Enter": Hello, Me
The common prefix is: Hello,
elijahkorneffel@Elijahs-MacBook-Pro ~/Git/CS2261-JAVA/Project1 02_11_19 •
java StringCompare
Enter string1 and hit "Enter": Hello
Enter string2 and hit "Enter": Yellow
The strings have no common prefix.
elijahkorneffel@Elijahs-MacBook-Pro ~/Git/CS2261-JAVA/Project1 02_11_19 •

```

Script done on Mon Feb 11 22:55:14 2019