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 limitor = 0;

int prefixEnd = 0;

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

{

limitor = string2.length();

}//Decides which length to use when traversing

else

{

limitor = string1.length();

}

//Traverses the strings to see if consecutive chars are equal.

for(int i = 0; i < limitor; 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);

}

}

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Enter string1 and hit "Enter": Hello, World

Enter string2 and hit "Enter": Hello, Me

The common prefix is: Hello,

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Enter string1 and hit "Enter": Hello

Enter string2 and hit "Enter": Yellow

The strings have no common prefix.

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