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StringCompare.java

```
public class StringCompare{//open class

    public boolean Compare(String a, String b){//open Compare method

        //create boolean to check if strings are the same

        boolean same = true;

        //if lengths are not the same, return false and dont continue

        if(a.length() != b.length()){//open if condition

            same = false;

            return same;

        }else{//close if, open else condition

            //convert each string to array of characters

            char[] x = a.toCharArray();

            char[] y = b.toCharArray();

            //use for loop to cehck each individual character

            for(int i=0;i<a.length();i++){//open for loop

                if(x[i] != y[i]){//open if condition

                    //if characers are not equal, change boolean to false

                    same = false;

                }//close if condition

            }//close for loop

        }

    }

}
```

```

        //return the value of the boolean
        return same;
    } //close else condition

} //close main method

} //close class

StringCompareTest.java

import java.util.*;

public class StringCompareTest { //open class

    public static void main(String[] args) { //open main method

        //Create Scanner object
        Scanner scan = new Scanner(System.in);

        //Take inputs for string 1 and 2
        System.out.print("Enter String 1: ");
        String x = scan.nextLine();
        System.out.print("Enter String 2: ");
        String y = scan.nextLine();

        //Create StringCompare object
        StringCompare z = new StringCompare();

        //Print the comparison result of string 1 and 2
        System.out.println(z.Compare(x,y));
    }
}

```

```
    }//close main method  
}  
} //close class
```

Q2.java

```
//Import java util for scanner
```

```
import java.util.*;
```

```
public class Q2{//open class
```

```
    public static void main(String[] args){//open main method
```

```
        //create a scanner object
```

```
        Scanner scan = new Scanner(System.in);
```

```
        //Take input from user
```

```
        System.out.print("Enter a sentence: ");
```

```
        String s = scan.nextLine();
```

```
        //Print sentence in uppercase only
```

```
        System.out.println("\nSentence in Upper Case: ");
```

```
        System.out.println(s.toUpperCase());
```

```
        //Print sentence in lowercase only
```

```
        System.out.println("\nSentence in Lower Case: ");
```

```
        System.out.println(s.toLowerCase());
```

```
        //Print out individual tokens
```

```
        System.out.println("\nSentences individual tokens: ");
```

```
        //use for loop to iterate over array, created using s.split(" ")
```

```
        for(String x : s.split(" ")){//open for loop
```

```
        System.out.println(x);

    } //close for loop

} //close main method

} //close class
```

```
D:\Users\marti\Files\Programming\Java\OOP2\Assignment7>java StringCompareTest
Enter String 1: Hello
Enter String 2: Bonjour
false

D:\Users\marti\Files\Programming\Java\OOP2\Assignment7>java StringCompareTest
Enter String 1: Hello
Enter String 2: Hello
true

D:\Users\marti\Files\Programming\Java\OOP2\Assignment7>java Q2
Enter a sentence: This is a sentence

Sentence in Upper Case:
THIS IS A SENTENCE

Sentence in Lower Case:
this is a sentence

Sentences individual tokens:
This
is
a
sentence
```