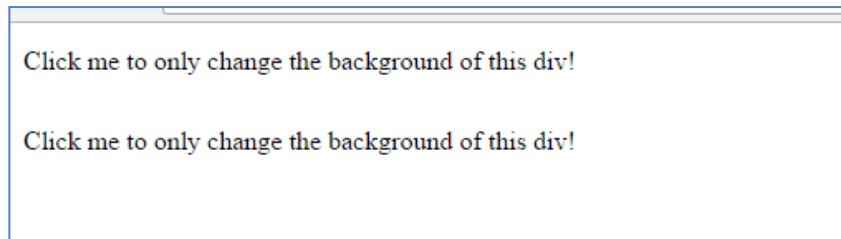# Worksheet 7: Functions Practice

1. Create two divs (having different ids) with the following text:

   Click me to only change the background of this div!

   Click me to only change the background of this div!

2. Once a user clicks on one of the divs, the div's background colour should change:

   Click me to only change the background of this div!

   Click me to only change the background of this div!

   Click me to only change the background of this div!

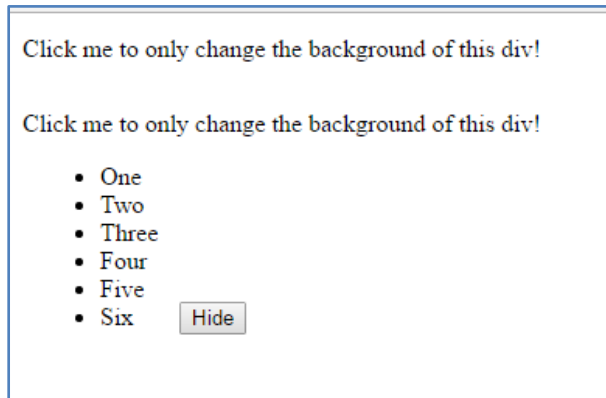   Click me to only change the background of this div!
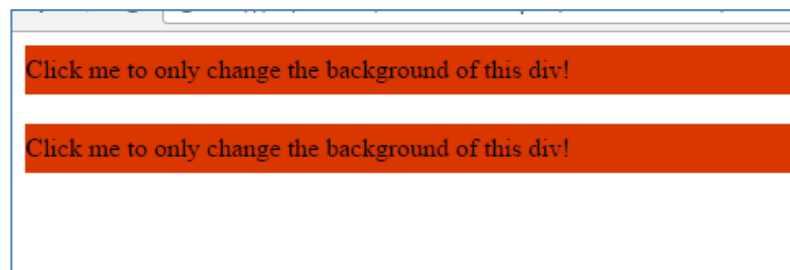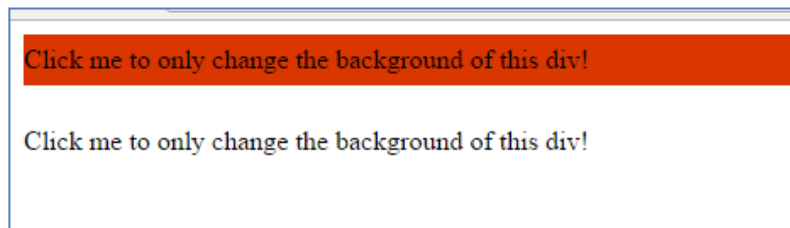
   Even though, you have two different divs, you only need to create one function for the process to occur.

3. Edit the previous function, you created, so that if the current div background colour is red, then it should change the background colour to a different colour:

   Click me to only change the background of this div!
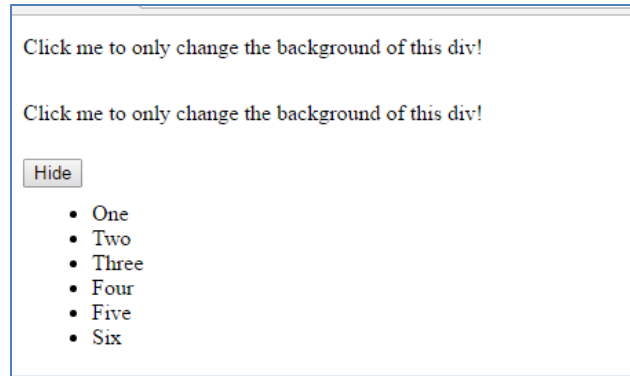
   Click me to only change the background of this div!
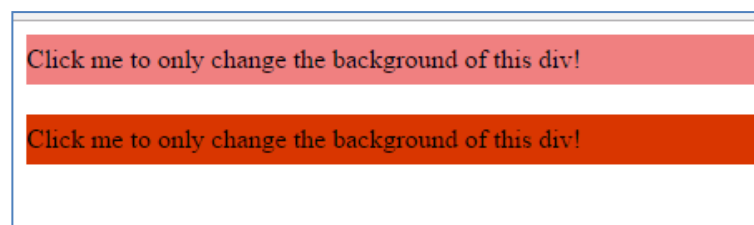
4. Create the following list and button:

> Click me to only change the background of this div!
>
> Click me to only change the background of this div!
>
> - One
> - Two
> - Three
> - Four
> - Five
> - Six   Hide

a) Once the user clicks on the *Hide* button, the list should disappear:

> Click me to only change the background of this div!
>
> Click me to only change the background of this div!
>
> Hide
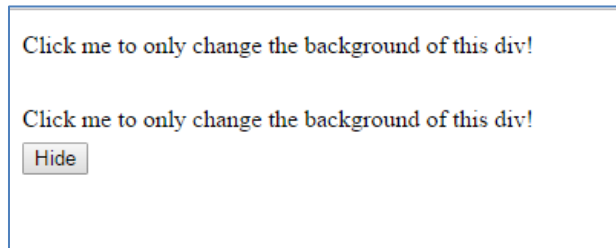
5. Change the above code so that the list is not shown once the page is loaded and the button text is *Show* and not *Hide*.

> Click me to only change the background of this div!
>
> Click me to only change the background of this div!
>
> Show
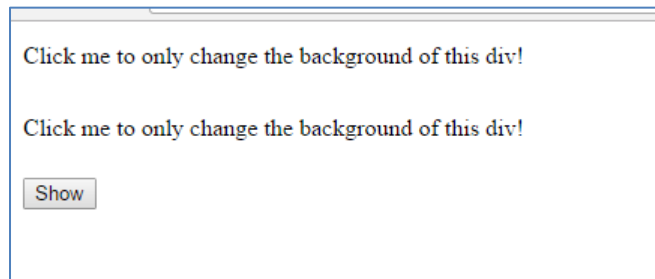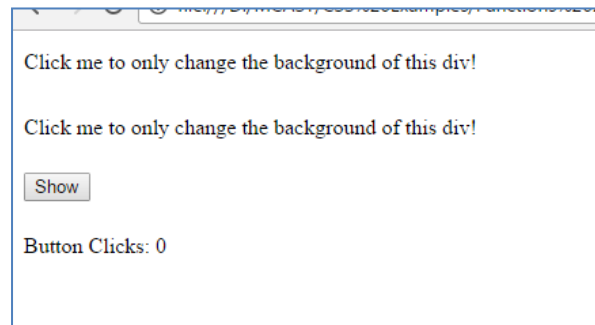
a) Once the user clicks on the *Show* button, the list should be displayed. Moreover the button text should be changed to *Hide*.

Click me to only change the background of this div!

Click me to only change the background of this div!
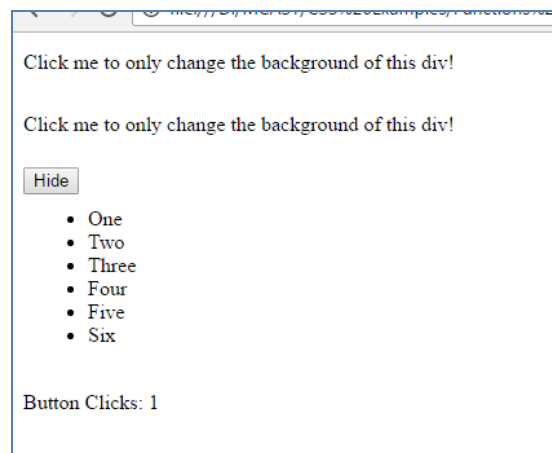
Hide

- One
- Two
- Three
- Four
- Five
- Six

b) Once the user clicks on the *Hide* button the list should be hidden once again.

6. Change the above page to include the following:

Click me to only change the background of this div!

Click me to only change the background of this div!
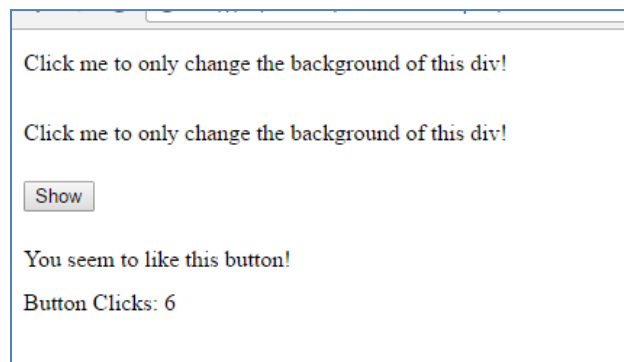
Show

Button Clicks: 0

a) Upon loading the page, the amount of button clicks should be 0.

b) Everytime the user clicks on the *Show/Hide* button, the button clicks number should increment:
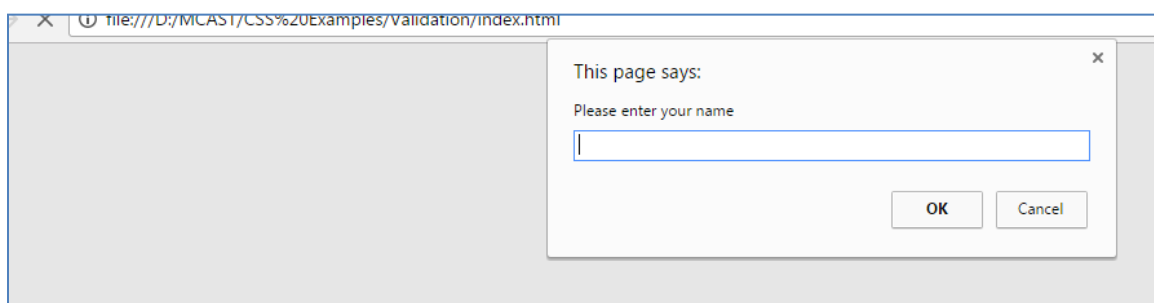
Click me to only change the background of this div!

Click me to only change the background of this div!

Hide

- One
- Two
- Three
- Four
- Five
- Six

Button Clicks: 1

c) When the button clicks number becomes larger than 5, a different statement should be displayed:

Click me to only change the background of this div!

Click me to only change the background of this div!

Show

You seem to like this button!

Button Clicks: 6

d) When the button clicks number becomes larger than 15, a different statement should be displayed:

Click me to only change the background of this div!

Click me to only change the background of this div!

Show

Now you have reached my limit! Stop clicking on the Show/Hide button!!

Button Clicks: 16
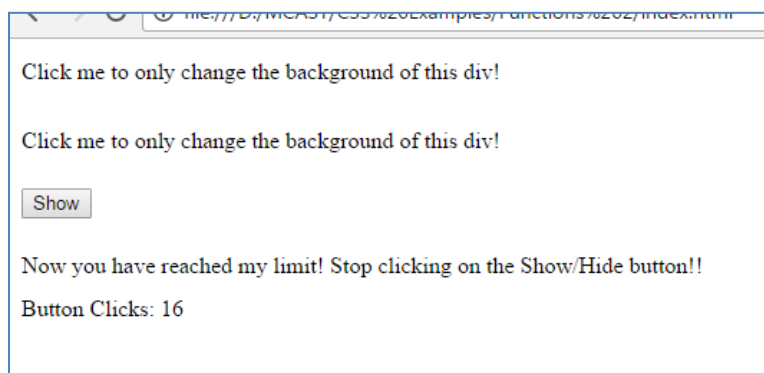
7. Create a new page which upon loading, asks the use to enter his/her name:

This page says:

Please enter your name

OK   Cancel

a) If the user, did in fact enter a name, the page should greet the user accordingly:
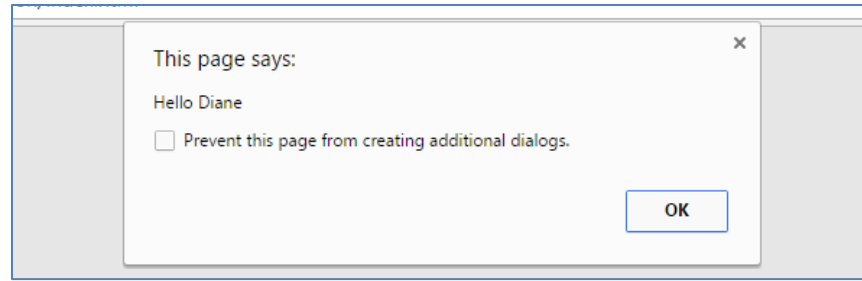
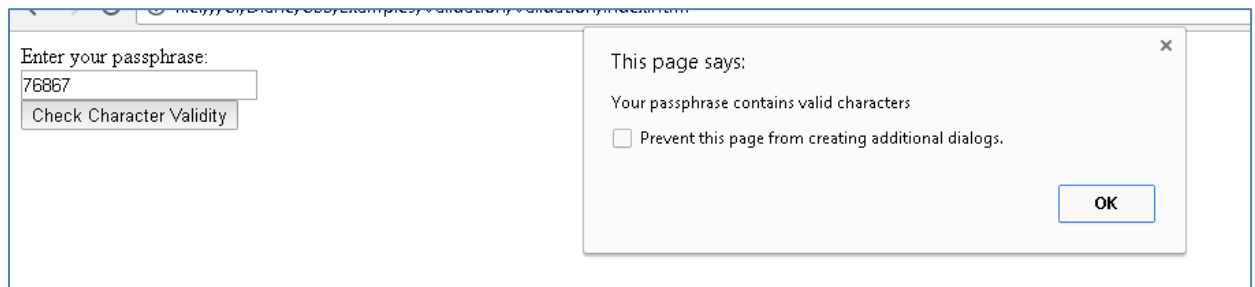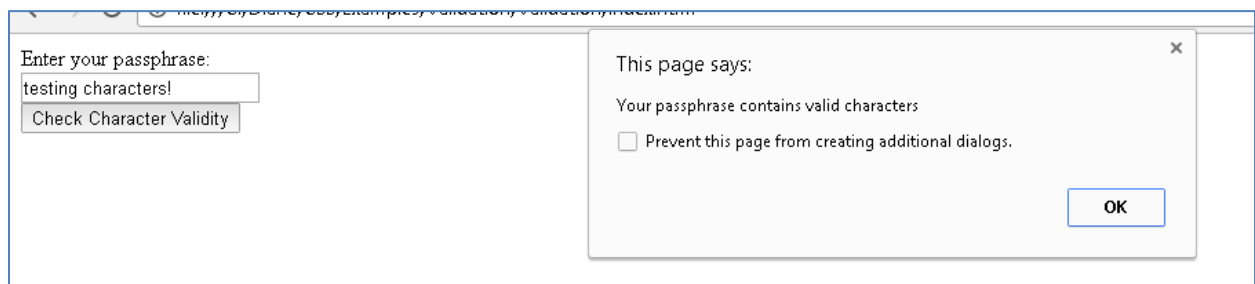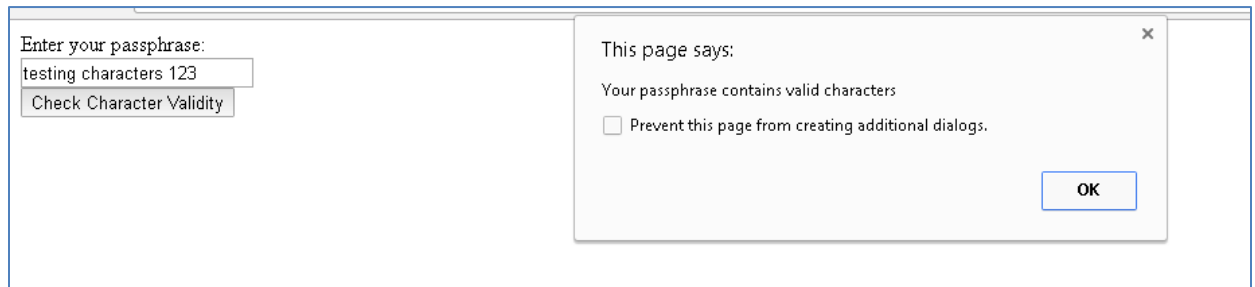**b)** Otherwise, a greeting should still be made. The name should be replaced with some other text:
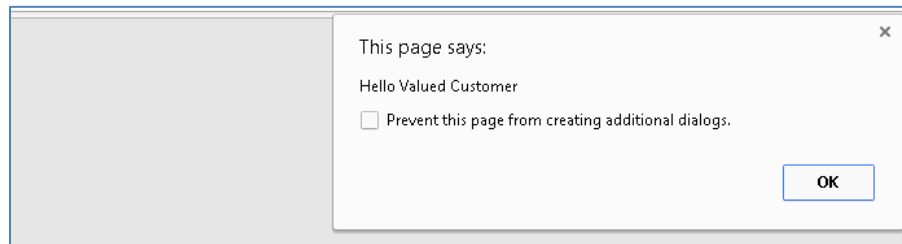
8. In this same page, create the following:

a) The button should check the passphrase inserted to see if it contains any correct characters or not.
Characters are considered to be correct if they are alphabetical characters and/or digits.

HINT: You can use regular expressions in order to check this character validity. It is ideal that you research on regular expressions and try it out.

Enter your passphrase:

testing characters

Check Character Validity

This page says:

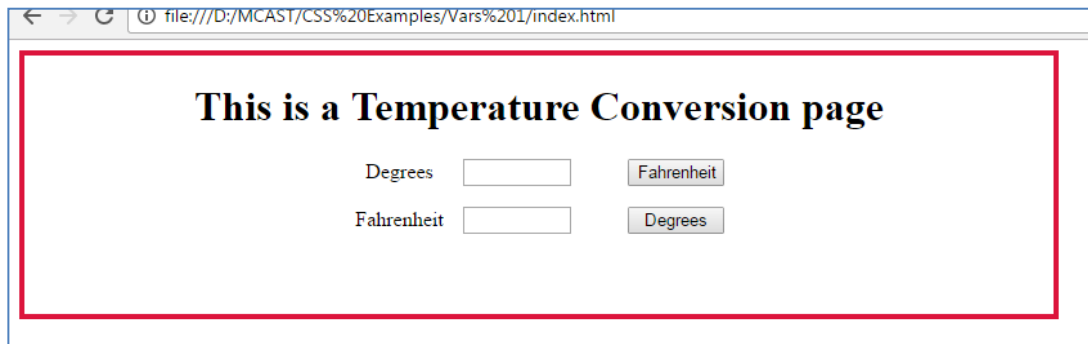Your passphrase contains valid characters

☐ Prevent this page from creating additional dialogs.

OK

Enter your passphrase:

testing characters 123

Check Character Validity

This page says:

Your passphrase contains valid characters

☐ Prevent this page from creating additional dialogs.

OK

Enter your passphrase:

testing characters!

Check Character Validity

This page says:

Your passphrase contains valid characters

☐ Prevent this page from creating additional dialogs.

OK

Enter your passphrase:

76867

Check Character Validity

This page says:

Your passphrase contains valid characters

☐ Prevent this page from creating additional dialogs.

OK

---

file:///C:/Diane/CSS/Examples/Validation/Validation/index.htm

Enter your passphrase:

^&*(%%

Check Character Validity

This page says:

Your passphrase contains invalid characters

☐ Prevent this page from creating additional dialogs.

OK

The last image does *not* contain any valid characters (alphabetical and/or numbers)
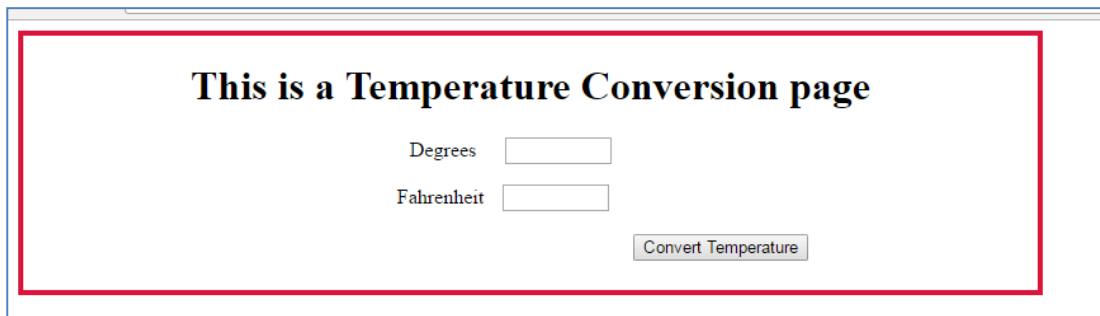
9. Change the Temperature Conversion page:

To the following:


a) The user is now required to Choose and enter a value in one of the text boxes (either for Degrees Celcius or for Fahrenheit).

b) When the user clicks on the *Convert Temperature* button, the conversion is done depending on where the temperature was inserted:

    i. If the user inserted the value in the *Degrees* text box, then the conversion is done from Degrees Celcius to Fahrenheit. The conversion result is shown in the *Fahrenheit* text box.

    ii. If the user inserted the value in the *Fahrenheit* text box, then the conversion is done from Fahrenheit to Degrees Celcius. The conversion result is shown in the *Degrees* text box.

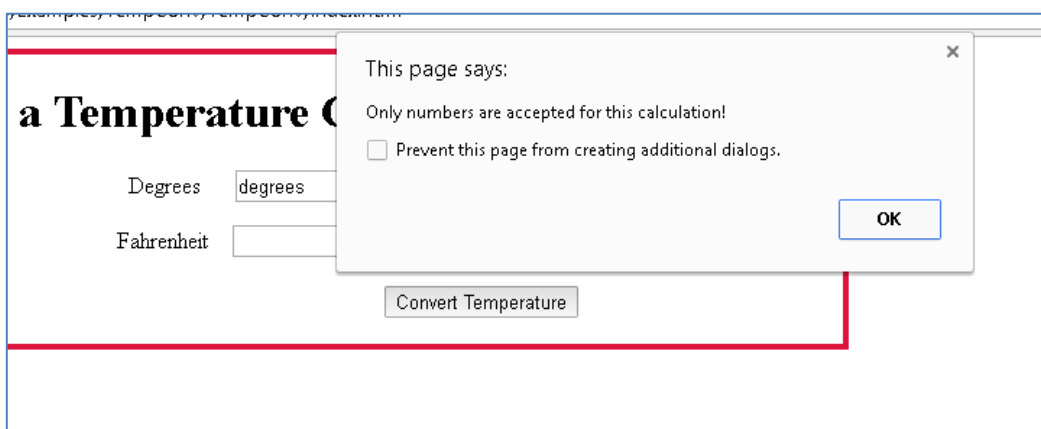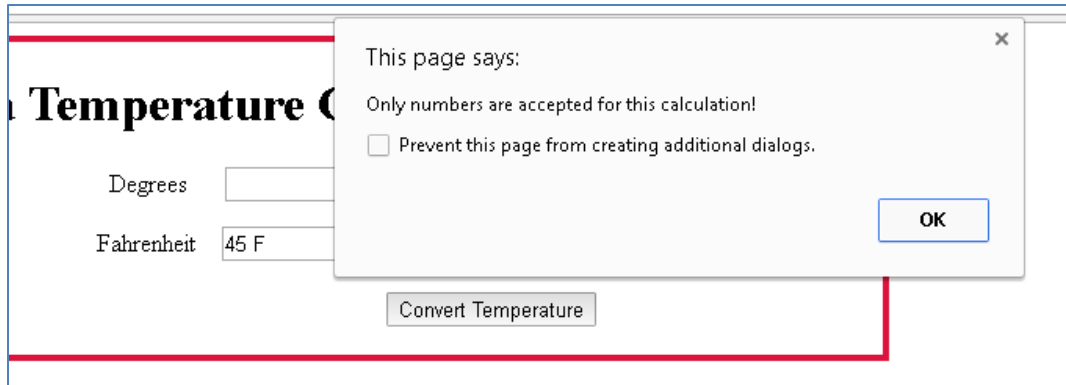c) If the user doesn't enter any value, an error is displayed:

a Temperature C

Degrees

Fahrenheit

Convert Temperature
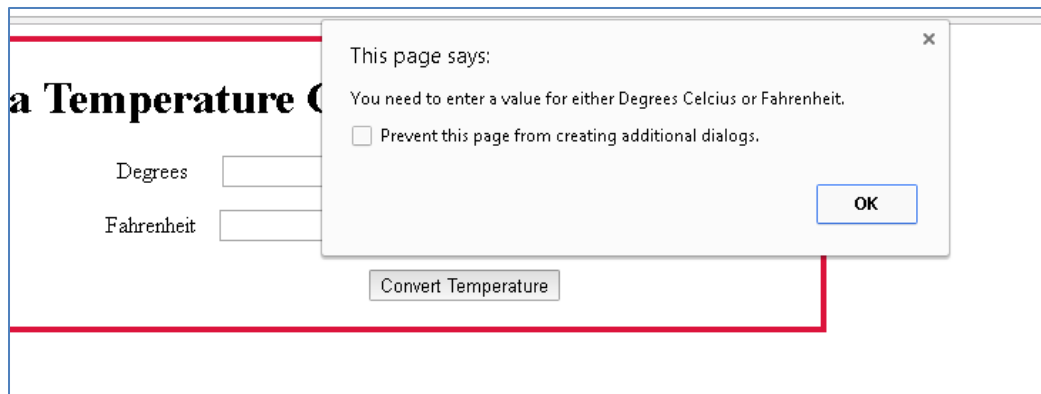
d) If the user enters two values in the two different text boxes, an error is displayed:

a Temperature C

Degrees   34

Fahrenheit 90

Convert Temperature
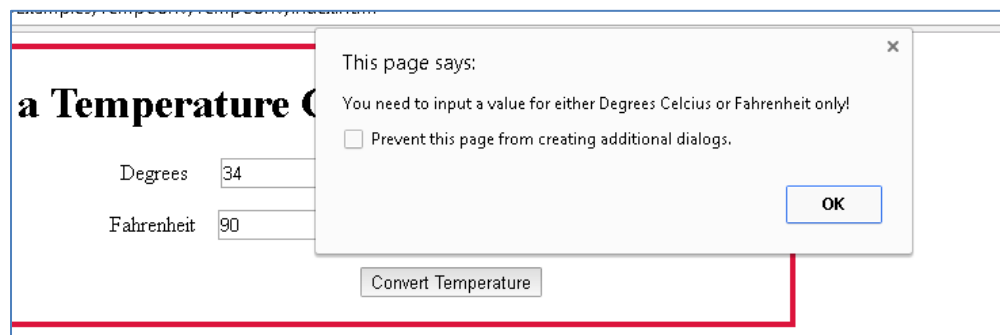
e) If the previous case occurs, the text boxes need to be cleared after the message box is closed.

f) If the user enters a string value, an error message should be displayed:

a Temperature C

Degrees   degrees

Fahrenheit

Convert Temperature

This page says:

Only numbers are accepted for this calculation!

☐ Prevent this page from creating additional dialogs.

OK

Temperature C

Degrees

Fahrenheit 45 F

Convert Temperature

g) If the previous case occurs, the value should also be cleared after the message box is closed.