

# Web Client-Side Programming – Homework 2

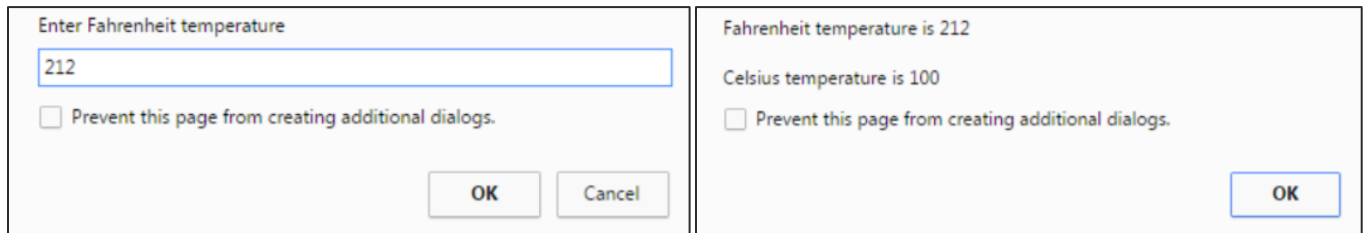
*Centigrade meaning 100 steps (Latin centum and gradus)*

## Description

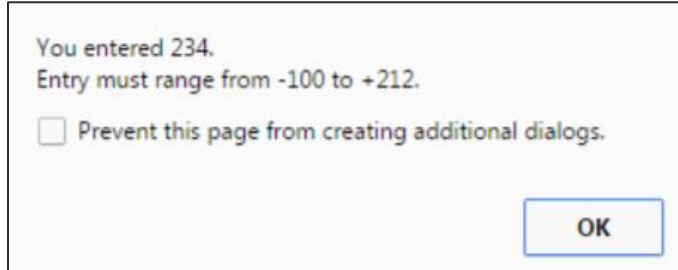
For this assignment we will create a simple web application to convert Fahrenheit to Celsius. We will not worry with complex data validation or HTML forms. We will use dialog boxes and simple validation. The goal of the assignment is to become comfortable with basic JavaScript.

## Specifications

- Starting with the basic HTML 5 Template (index.html) on Canvas, create an application that converts Fahrenheit temperatures to Celsius temperatures by using the prompt() and alert() methods.
- The prompt and alert dialog box should look like the ones below.



- To convert Fahrenheit to Celsius, first subtract 32.0 from the Fahrenheit temperature. Then, multiply that result by 5.0/9.0.
- Add data validation to the application so it won't do the conversion until the user enters a Fahrenheit temperature between -100 and 212.



- If the entry is invalid, a dialog box like the one below should be displayed.
- Do not forget to put a comment at the top of the code file with your name and assignment.

## Documentation

You will need to create a document (.docx, .rtf, .pdf) which contains the following:

- A screenshot of your page running on your local webserver. Your screenshot needs to include the address bar with the localhost url and shows the input, error for invalid input, and the result.
- You will need to validate the index.html page using the HTML validator (link on Canvas) and include a screenshot of the successful validation (Green Bar).
- Do a quick online search and explain the following topics (be sure to document your sources) –
  - JavaScript is described as Weakly Typed. What does that mean? What are the implications?

## What to Submit

You need to submit your index.html file along with your Document. Make sure your document is in the correct format and includes your name.