

## CSCI354 Assignment 3

**NOTE:** Be sure to make a copy of your code before working on this assignment! It will require significant changes to the markup and styles. Use your copy for working on the assignment and leave the original intact for using in class. This also applies to all later assignments.

### Part A

In your CoffeeRun project, create a handler for the slider's **change** event. As the value of the slider changes, show the number next to the label for the slider.

Also, you need to change the color of the number (or the label) to reflect the intensity of the caffeine strength. E.g., use green for weaker coffee, yellow for regular strength coffee, and red for very strong coffee. Below shows an illustration:

The figure consists of three side-by-side screenshots of a web application titled "CoffeeRun". Each screenshot shows a form with fields for "Coffee Order" (empty), "Email" (dr@who.com), size options ("Short", "Tall", "Grande" with "Tall" selected), flavor shot ("None"), and a "Coffeine Rating" slider. In the first screenshot, the slider is at 15 and the label is green. In the second, it is at 45 and the label is yellow. In the third, it is at 85 and the label is red. All three screenshots include "Submit" and "Reset" buttons.

**Hint:** It may not necessarily be change event. Choose the best event you think suitable for this feature.

### Part B

Add another function to your Validation module. It should accept two arguments: a string and an integer. If the string contains the word "decaf" and the integer is greater than 20, the function should return false.

Add listeners for the coffee order text field and for the caffeine strength slider. Trigger the custom validation for whichever field is currently being edited and caused the validation failure. Below shows an illustration:

- (1) Set high caffeine first then add decaf, causing validation failed at the Coffee Order

input text field.

- (2) In case (1), after clicking the submit button, an error message is displayed at the Coffee Order input text field.
- (3) Add decaf first then set high caffeine, causing validation failed at the Caffeine Rating slider. After clicking submit, an error message is displayed at the Caffeine Rating slider.

CoffeeRun

Coffee Order  
Latte Decaf

Email  
drWang@olemiss.edu

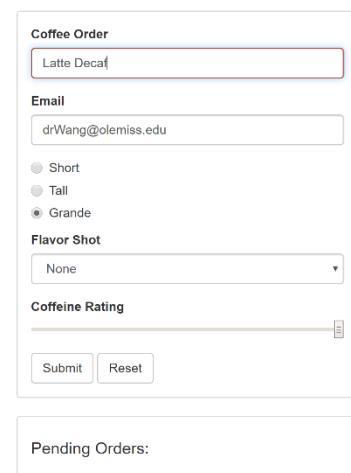
Short  
 Tall  
 Grande

Flavor Shot  
None

Caffeine Rating  
65

Submit Reset

Pending Orders:



(1)

CoffeeRun

Coffee Order  
Latte Decaf

Email  
drWang@olemiss.edu

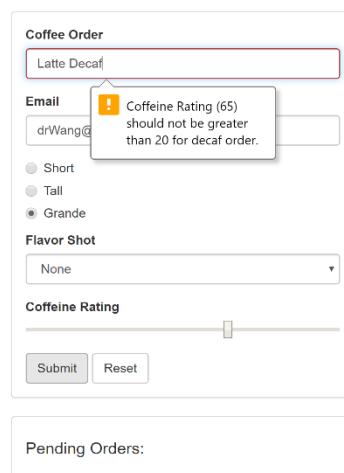
Short  
 Tall  
 Grande

Flavor Shot  
None

Caffeine Rating  
65

Submit Reset

Pending Orders:



(2)

CoffeeRun

Coffee Order  
Latte Decaf

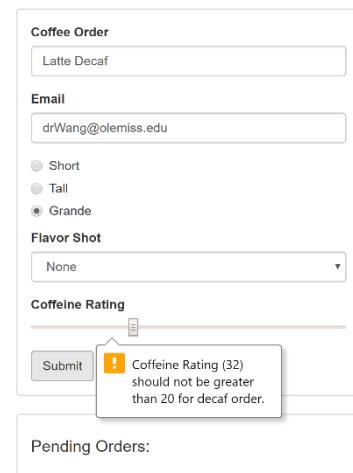
Email  
drWang@olemiss.edu

Short  
 Tall  
 Grande

Flavor Shot  
None

Caffeine Rating  
32

Submit



(3)

### **Part C (Bonus Part)**

Color code your orders based on the flavor shot. Based on the options chosen for each coffee, display the row in the checklist with a different background color.

Make sure that the text has enough contrast with the background color.

**Hint:** Recall what we did in Discussion 1. You may use what we have learned from there to help you choose colors.