

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 illustration shows three instances of the CoffeeRun form, each with a different Caffeine Rating value and color. The form includes a Coffee Order text field, an Email text field, radio buttons for Short, Tall, and Grande, a Flavor Shot dropdown menu, and a Caffeine Rating slider. The Submit and Reset buttons are at the bottom.

CoffeeRun	CoffeeRun	CoffeeRun
Coffee Order	Coffee Order	Coffee Order
Email	Email	Email
Short	Short	Short
Tall	Tall	Tall
Grande	Grande	Grande
Flavor Shot	Flavor Shot	Flavor Shot
Caffeine Rating 15	Caffeine Rating 45	Caffeine Rating 85
Submit	Submit	Submit
Reset	Reset	Reset

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 coffeine, causing validation failed at the Coffeine Rating slider. After clicking submit, an error message is displayed at the Coffeine Rating slider.

CoffeeRun

Coffee Order

Latte Decaf

Email

drWang@olemiss.edu

☐ Short
☐ Tall
☒ Grande

Flavor Shot

None

Coffeine Rating

Submit Reset

Pending Orders:

(1)

CoffeeRun

Coffee Order

Latte Decaf

Email

drWang@olemiss.edu

☐ Short
☐ Tall
☒ Grande

Flavor Shot

None

Coffeine Rating

Submit Reset

Pending Orders:

(2)

CoffeeRun

Coffee Order

Latte Decaf

Email

drWang@olemiss.edu

☐ Short
☐ Tall
☒ Grande

Flavor Shot

None

Coffeine Rating

Submit Reset

Pending Orders:

(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.