Angular Lab 1: Data Binding Exercises

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1 Lab setup

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- 2 Generating a new Angular project
- 3 General structure of an Angular app
- 4 Template expressions and interpolations

Q1: Add in a property to the root component called myAge and give it any random value

Q2: Display the value of this property with a random string (for e.g. I am 60 years old) in the template HTML

Q3: Add in a method called getAgeMessage which returns a string depending on the value of myAge. The content of the string returned is:

myAge less than 30: I am sooo young myAge between 31 and 50: I am middle aged myAge more than 51: I am soooo old.

Q4: Using this method, display a message similar to the following in the template:

I am 40 years old, and I am middle aged

Change the value of myAge to check that the correct messages are displayed for the correct age.

5 Angular app scripts and the DOM

6 Property binding

Q1: Add in two properties <code>socialMediaSite</code> (which holds any random valid URL) and <code>myOpenStyle</code> (which holds the value of either <code>_self</code> or <code>_blank</code> (see Q6 from Topic 4) to the root component

Q2: Add in an <a> element into the template which uses these two properties in the syntax of property binding. Check that it works properly.

7 Class binding

First Part: (after app.component-v3.ts, app.component-v3.html)

Q1: Create a <div> element and nest a with some text within this <div>. The <u>CSS Box model</u> provides a set of properties to delineate an element and its child elements. You can use a variety of <u>properties</u> to control the border look for the <div>. Set a suitable padding for the <div>.

Q2: Add 2 different classes in the template CSS which sets different values for the border-style property, another 2 different classes which sets different values for the border-color property, and another 2 different classes which sets different values for the border-width property. Give these classes any suitable names.

Q3: Add any one of these 6 classes to the <div>, and then use single binding to add another different class to the <div>, depending on a Boolean property in the component.

Q4: Add any 2 or more of these 6 classes to the <div>, and then use single binding to remove one of these classes, depending on a Boolean property in the component.

Second Part:

Reuse the same <div> and classes from First Part: Q1 and Q2

Q5: Add any one of the 6 classes to the <div>, and use a string to add another 2 more of these classes to the <div>

Q6: Add any one of the 6 classes to the <div>, and use an object to add another 2 more of these classes to the <div> while removing the existing class.

Q7. Add any one of the 6 classes to the <div>, and use an array of strings to add another 2 more of these classes to the <div>

8 Style binding

Q1: Create a element and use single style binding to set its font-family property.

Q2: Create a <div> element and nest a with some text within this <div>. Use a string containing the relevant properties to style the <div>

Q3: Create another <div> element and nest a with some text within this <div>. Use an object containing the <u>relevant properties</u> to style this <div>

9 Event binding

Q1: Add in 3 radio buttons, each with different values.

- Q2. Provide event binding for the click event for all these 3 radio buttons to the same component method
- Q3. Implement this component method so that it logs the value of the particular radio button clicked.

9.1 Template reference variables for event binding

Repeat Q1 - Q3 from the previous section, but implement the event binding using template reference variables instead.

9.2 Combining interpolation, property, class and event binding

Q1. Using any 2 or more HTML elements of your choice (text field, normal button, radio button, check box, paragraph, etc) create a scenario of your design that combines interpolation, property, class and event binding.

10 Two way binding with ngModel

Q1. Create a <u>radio button</u>. Use banana-in-the-box syntax to perform 2 way binding between the button value and a component property and display the property via interpolation.