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Assignment 6B  
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## Reflection

For assignment 6B, when I was implementing JavaScript for the Tartan Testing website, I found difficulty working with forms and retrieving data from them. Previously, for assignment 5, when we only had to implement the HTML and CSS, I did not think ahead. Therefore, while I was implementing HTML and CSS, I created two forms on one page and my buttons were all anchor tags, rather than button tags or input tags with the `type="submit"` (if it was a submit button). This caused a few errors for me as I was implementing `localStorage` functionality, and it also made it difficult to have form validation. Luckily, my CSS was set up in organized classes and ids so it was not difficult to change the tag and functionality of the elements while keeping the visual aspect of the buttons untouched. I changed the anchor tags to input and button tags, as needed, to help with the functionality of the website.

Another difficulty that I encountered during this assignment was that my form for scheduling an appointment spanned multiple pages. Since it spanned multiple pages, I had to use `localStorage` often to store values across pages. I also had back buttons available for the user, so when the user presses "back", I had to make sure that the value selected in the "Select Appointment Time" was selected so it is not a hassle for the user. I accomplished this by using `localStorage` (which I also made sure to clear once an appointment was confirmed).

## Programming Concepts

1. Objects
  - a. I used objects twice, once for appointments and another time for COVID-19 test results.
2. Array
  - a. I used arrays to organize and keep track of the objects that I created for my appointments and COVID-19 test results.
3. `localStorage`
  - a. I used `localStorage` often, especially when the user is scheduling an appointment. For example, when the user chooses an appointment type, date, and time, these are all stored into `localStorage`. On the final confirmation page, I

also save an array of appointment objects into localStorage so I can display it in upcoming appointments.

4. Loops

- a. I used loops to loop through lists of objects or when I queried for all of the buttons with a certain class. By using loops, I can apply the same function to each item in the array.

5. try...catch

- a. I used try...catch to account for user error and also to have different code run depending on if certain things are valid. For example, I used it a few times in my scheduling-appt.js file, where I would alert an error message if the user tries to confirm the current step in the scheduling appointment form without filling in the proper information and I would store the data if they did select something.