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Assignment 8: Your Simple Script

Script Idea
1. **Describe the idea and where the script will live on your site (which page). Explain how it enables user interaction and what features of your site will benefit from it.**
   My script will be one that lives on the homepage and will display the usernames and likes of the top 5 users of the site. This will enable and encourage user interaction as users will want to post more to get their name on the front page of the website. The features this will benefit are writing reviews and creating lists, as more users will be encouraged to create quality content that other users like.

Goals
2. **Outline what you aim to achieve with this script. For example, will the script enhance user experience, provide useful calculations, or display dynamic content based on user input?**
   This script enhances user experience by putting a spotlight on the most popular users so people can check out their content and be encouraged to make more content of their own. This script also provides useful calculations by calculating the amount of likes these top users have received on both their reviews and lists.

Task Breakdown
3. **Break down the process into smaller tasks that your script will need to perform. Think through each step, from capturing user input to displaying the final output on the site.**
   Tasks
   1. Create 3 arrays to hold the top 5 users, the number of likes they have received on reviews, and the number of likes they have received on lists.
   2. Use get element by ID to change the text of the h2 tag to a title stating "Top 5 Users".
   3. Use a query selector to get the first list item using its class. Use arithmetic operators to add up the number of likes for this user and change the innerHTML of the list item to display the username in bold as well as the number of likes the user has received.
   4. Use getElementsByClassName to get the list items for the following four users. Use arithmetic operators to add up the number of likes for these users and change the innerHTML of the list items to display the username in bold as well as the number of likes the user has received.
   5. Use getElementsByTagName on the tag "h5" and change the text content of the first h6 tag to write a thank you message to these users.

Flowchart

4. **Visualize the steps in your script by creating a flowchart that maps out the sequence of actions. You can use tools like draw.io or any other diagram tool to sketch out the logical flow of your script.**

```
┌─────────────────────────────┐
│ Create 3 arrays to hold     │
│ usernames, review likes,    │
│ and list likes              │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│ Use getElementById to       │
│ access first header         │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│ Change text content to      │
│ "Top 5 Users"               │
└─────────────────────────────┘
     ↙        │        ↘
```

Left branch:
- use querySelector on the "top_user" class.
- Store username of top user in string variable
- Add up this users review likes and list likes
- Change the inner HTML of first list item to display the username and total likes

Middle branch:
- Use getElementsByClassName on the "second_place" class
- Store username of the second and third users in string variables
- Add up the review likes and list likes for each user.
- Change the inner HTML of second and third list items to display the username and total likes

Right branch:
- Use getElementsByClassName on the "third_place" class
- Store usernames of the fourth and fifth users in string variables
- Add up the review likes and list likes for each user.
- Change the inner HTML of fourth and fifth list items to display the username and total likes

```
              ↘     ↓     ↙
┌─────────────────────────────┐
│ Use getElementByTagName on  │
│ tag "h6".                   │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│ Change the text content of  │
│ the first h6 tag to a thank │
│ you message to the top 5    │
│ users.                      │
└─────────────────────────────┘
```