Submission: Upload your work to GitHub repo till the next practice lesson

Show Your Knowledge of HTML/CSS/JavaScript

Learning Objectives

By the end of this lab, you will be able to:

- Understand core JavaScript data types and variable declarations
- Work with the Document Object Model (DOM) to manipulate page elements
- Handle user events such as clicks and form input
- Create, read, update, and delete (CRUD) DOM elements dynamically
- Build a functional single-page application using HTML, CSS, and JavaScript

Tasks (2)

1. Complete the **javascript.info** tutorial exercises from the beginning up to and including the **Data Types** section.

   a. Work through each sub-topic and complete the tasks at the end of each chapter
   b. Collect all your solutions in a single folder
   c. Push the folder to your GitHub repository

   Note: "Data Types" refers to the section/chapter, not section 2.5. Make sure you cover all chapters up to and including the full Data Types section.

2. Create a simple **To-Do List** application using HTML, CSS, and JavaScript with all working actions:

   - **Adding** a new item via a text input and button
   - **Marking as "done"** using a checkbox (with visual strikethrough or style change)
   - **Deleting** an item with a delete button

   Focus on: DOM manipulation (createElement, appendChild, removeChild), event listeners (click, change), and dynamic styling. The page should have a clean, usable layout.

Requirements

- **Semantic HTML:** Use appropriate tags such as <header>, <main>, <form>, <label>, /<li>, <button>
- **CSS Styling:** Apply clean, readable styling; use Flexbox for layout where appropriate
- **JavaScript:** Use vanilla JavaScript only (no frameworks or libraries)
- **DOM Manipulation:** Create, modify, and remove elements dynamically using the DOM API
- **Event Handling:** Use addEventListener for user interactions
- **Code Quality:** Follow the Airbnb JavaScript Style Guide; use meaningful variable and function names

Deliverables

Submit your work folder containing the following structure:

```
lab3/
    task1/
        chapter1.js
        chapter2.js
        ...  (one file per chapter or as needed)
    task2/
        index.html
        styles.css
        script.js
```

Useful Resources

1. **The Modern JavaScript Tutorial:** https://javascript.info/
2. **Learn JavaScript (RU):** https://learn.javascript.ru/
3. **MDN Web Docs (JavaScript):** https://developer.mozilla.org/en-US/docs/Web/JavaScript
4. **W3Schools JavaScript Tutorial:** https://www.w3schools.com/js/
5. **MDN JavaScript Basics (RU):** https://developer.mozilla.org/ru/docs/Learn/Getting_started_with_the_web/JavaScript_basics
6. **Airbnb JavaScript Style Guide:** https://github.com/airbnb/javascript
7. **Developer Roadmaps:** https://roadmap.sh/

GOOD LUCK! :)