7.0 Introduction to JavaScript

- **JavaScript** is a type of computer programming language that makes websites interactive and dynamic.
  - It's used to create functions and actions on web pages, like making buttons respond when you click them, or updating information on a webpage without needing to refresh the whole page.
- JavaScript an essential part of web development and allows developers to bring websites to life by controlling how they behave and display information.
- JavaScript is one of the **3 languages** all web developers **must** learn:
  - **HTML** is the markup language that we use to structure and give meaning to our web content, for example defining paragraphs, headings, and data tables, or embedding images and videos in the page.
  - **CSS** is a language of style rules that we use to apply styling to our HTML content, for example setting background colors and fonts, and laying out our content in multiple columns.
  - **JavaScript** is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else.
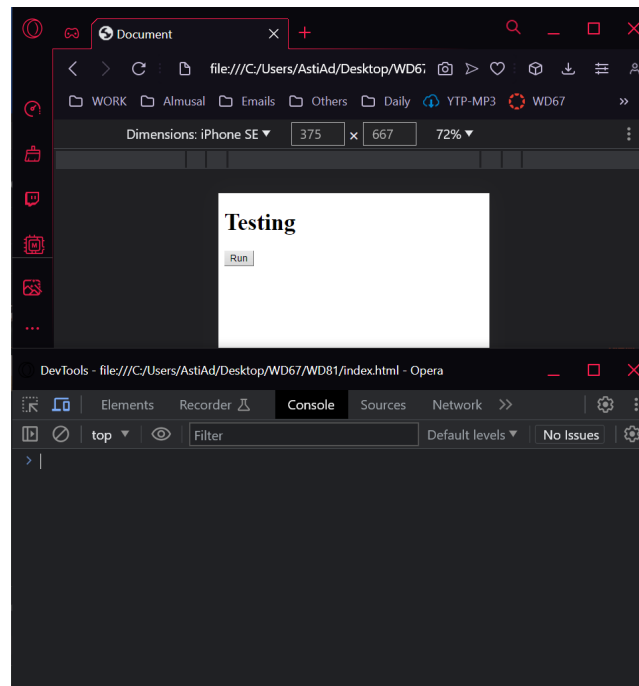
Running JavaScript

The <script> tag

- The `<script>` tag is used to embed a client-side script (JavaScript).
  - The `<script>` element either contains scripting statements, or it points to an external script file through the src attribute.
- Upon the page loading/reloading, the scripts written within the `<script>` tags are ran in order once.
- JavaScript is *always* executed from top to bottom.

Setting up HTML with JavaScript

1. Open your .html file.
2. Create a .js file.
3. Add the following to the HTML `<head>`
   - `<script src="path to file"></script>`
4. Open your .html file through your browser.
5. Outputs would be visible via the browser console.
   - To access the console, right click on your open .html file.
   - Select Inspect or Inspect Element.
   - Select the Console tab.
   - Make sure to have **Preserve Log** selected by clicking on the gear icon and selecting Preserve Log.

Browser and open console

Additional Material

- **References**
  - W3Schools

0:00 / 0:19