

SIT120 - Introduction to Responsive Web Apps

Pass Task 2

1 – Understand responsive web Pages and apps.

Instruction:

In this task you will learn the fundamentals of responsive web design. In this unit, you will create your own responsive web page that works well on any device phone, tablet, desktop, or anything in between. Go through the document:

<https://developers.google.com/web/fundamentals/design-and-ux/responsive/>.

to learn about responsive web design basics.

Task to submit: Write what is responsive web design and why it is important? (Max 150 words)

2 – Understanding how responsive web design can be implemented using CSS.

Instruction:

Add responsive CSS to your Pass Task 1.

Keep reading the document and understand how to implement the concept of responsive web design:

<https://developers.google.com/web/fundamentals/design-and-ux/responsive/>

Task to submit: Write how to implement responsive web design with CSS and implement code; hint: CSS @media Rule (Max 150 words).

3 – JavaScript String Methods

Instruction: String Methods are used to work with strings. Visit our Unit site or [JavaScript String Methods \(w3schools.com\)](https://www.w3schools.com/js/js_string_methods.asp) for more information.

Task to submit: Write a JavaScript file with at least 5 string methods. Hint: Use `console.log` function for output. (No need to include HTML and CSS)

4 – JavaScript Number, Number Methods and Array Methods

Instruction: JavaScript Number is a primitive wrapper object used to work with numbers like 2, -3.2 etc. Check [JavaScript Numbers \(w3schools.com\)](https://www.w3schools.com/js/js_numbers.asp) for more information. Also, Number Methods are used on different types of numbers like variables or expressions. Check [Number Methods \(w3schools.com\)](https://www.w3schools.com/js/js_number_methods.asp) for more information. The Array object is used to store multiple values (same data type) in a single variable. Check [JavaScript Array Reference \(w3schools.com\)](https://www.w3schools.com/js/js_array_reference.asp) for more information about array.

Task to submit: Write a JavaScript file with at least 2 array variables (one string array and one number array) with total 5 array methods (you can use either string array or number array, or you can use both e.g., 2 methods using string array then 3 methods using number array).

Hint: Use `console.log` function for output. (No need to include HTML and CSS)

5 – JavaScript Date API

Instruction: JavaScript Date objects represent a single moment in time in a platform-independent format. See: [JavaScript Date Objects \(w3schools.com\)](https://www.w3schools.com/js/js_date_objects.asp) and [Date - JavaScript | MDN](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) (mozilla.org).

Task to submit: Write a JavaScript file with at least 5 Date methods. **Hint:** Use `console.log` function for output. (No need to include HTML and CSS)

6 – Write your reflections on the above tasks. (Max 150 words)

Submission Details:

1. Make sure you follow these instructions strictly.
2. All tasks need to follow these guidelines:
 1. GitHub Repo is a MUST. No zip files will be accepted. Please maintain one task sheet submissions in one GitHub Repo. Don't group all task sheets in one GitHub repo. [If you are keeping repo private then add tutors as collaborators]
 2. Demo video MUST be submitted. It MUST show JavaScript/website running successfully. Share your video through Deakin air, SharePoint, or unlisted YouTube link etc. (You can do the screen recording through Zoom, Zoom is free for all Deakin students)
 3. Provide direct link to both GitHub repo and video separately.
 4. Submit PDF report including reflections, screenshots etc.
3. Plagiarism is unacceptable.
4. Due date: Please follow OnTrack due date.