



Web Programming

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Lab 6 – JavaScript Fundamentals

Data Types and Variables
Operators and Expressions

Loops

Arrays

Dom

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Problem 1. Quoted text

Create a string variable with quoted text in it. For example: He said, "I don't care."

Note: To show the string, you can use one of the following methods:

- `document.writeln(string);`
- `console.log(string);`
- Create a p tag with ID, `document.getElementById("p_tag_ID").innerText = string;`

Problem 2. Parsing numbers

Try parsing the following strings to numbers using `parseInt`, `parseFloat`, `Number`, `+` and `| 0`.

Fill the answers for yourself in the table below.

str	parseInt(str)	parseFloat(str)	Number(str)	+str	str 0
1234	?	?	?	?	?
1234abc	?	?	?	?	?
0.15	?	?	?	?	?
3.14ivan	?	?	?	?	?
Infinity	?	?	?	?	?
99999999999999999999	?	?	?	?	?

Problem 3. Compare Array of Objects

▪ Description

Write a function to sort an array of product objects in increasing order of product's price.

▪ Input

- One array contains product objects
- Each of them has three properties: Product Name, Product Image and Product Price

▪ Output

Return one array that contains the product objects in increasing order of their price

Problem 4. Product List

- Create an array that contains a product list. Each product consists of ID, Product Name, Quantity, Price, Image
- Sort the product list by the product name
- Print the products in the list
- Add a new product to head of the list
- Add a new product to tail of the list
- Search products by the product name
- Remove the product by the product ID
- Edit the product detail by the product ID

Problem 5. Replace all `href` values

- **Description**

Write a function that replace all occurrences of the href values of all links in a site.

- **Input**

One **href** string that you want to be replaced

- **Output**

All **href** values of the site will be replaced by the specified **href** string

Problem 6. querySelector() Method

Expand pre-written HTML code to:

- add a **background color** to the **first p** element in the document with **class = "example"**
- add a **red border** to the **first link** that has a **target attribute**
- change a **font size** and a **color** of the **first p** element in the document where the **parent is a div** element

when you **click the Change button**

Problem 7. querySelectorAll() Method

Expand pre-written HTML code to:

- add a **background color** to the **first p** element in the document with **class** = “example”
 - change a **margin** and a **padding** and add a **border** of all elements with class = “example”
 - add a **red border** and **remove** the **underline** to **all links** in the document with a **target attribute**
 - change the **color** of all **h1** and **h2** elements with **class** = “Title”
- when you **click** the **Change button**