# Using Variables in JavaScript Labs

Perform these labs on your own computer using Visual Studio 2022 or later, or VS Code 1.8x or later, to ensure you understand the lessons presented in the corresponding videos and lectures.

## Lab 1: Create Input Page

Create a new file named **variables.html**. Open the **variables.html** file and add the following HTML.

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width" />

<title>RV Information</title>

<link href="styles/site.css" rel="stylesheet" />

</head>

<body>

<header>

<h1>RV Information</h1>

</header>

<main>

<form>

<div>

<label for="year">RV Year</label>

<input type="number" id="year" name="year" value="2022" />

</div>

<div>

<label for="make">RV Make</label>

<input type="text" id="make" name="make" value="Newmar" />

</div>

<div>

<label for="model">RV Model</label>

<input type="text" id="model" name="model" value="New Aire" />

</div>

<div>

<button type="button">

Display Age

</button>

</div>

</form>

</main>

<script>

'use strict';

</script>

</body>

</html>

### Try It Out

Display the **variables.html** file in your browser and it should look like Figure 1.

A screenshot of a computer

AI-generated content may be incorrect.

Figure : Create a page to gather RV information.

## Lab 2: Display the Age of the RV

Open the **variables.html** file and add a new function, displayAge(), to calculate how many years old the RV is from today's year. Declare a variable called *currentYear* and set it equal to the current 4-digit year. Retrieve the year input field and place it into a variable called *rvYear*. Subtract the *rvYear* from the *currentYear* using a minus sign (-) and display the result in an alert(). Call this new function from the **Display Age** button.

**NOTE**: All values read from the **value** property are read in as strings. Coerce them into numbers as appropriate.

### Try It Out

Display the **variables.html** file in your browser and click on the **Display Age** button and it should look like Figure 2.

A screenshot of a computer

AI-generated content may be incorrect.

Figure : Calculate the age of an RV.

## Lab 3: Display Year, Make, and Model Using a Template Literal

Open the **variables.html** file and add a new button.

<button type="button">

Display Year/Make/Model

</button>

Add a new function named displayYearMakeModel() to display the year, make, and model values from all three input fields. Extract all three input fields into separate variables. Using a template literal, put the fields into a single string variable and display that string in the console and in an alert(). Call this function from the new button.

### Try It Out

Display the **variables.html** file in your browser and click on the **Display Year/Make/Model** button and it should look like Figure 3.

A screenshot of a computer

AI-generated content may be incorrect.

Figure : Display the year, make, and model of RV.

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## Answers

### Lab 2

function displayAge() {

let currentYear = 2025;

let rvYear = document.getElementById("year").value;

alert(currentYear - rvYear);

}

### Lab 3

function displayYearMakeModel() {

let year = document.getElementById("year").value;

let make = document.getElementById("make").value;

let model = document.getElementById("make").value;

let rvInfo = `${year} ${make} ${model}`;

console.log(rvInfo);

alert(rvInfo);

}