# Workshops on the course JavaScript Fundamentals

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## Expected learning outcomes/topics

## Workshop #4, JavaScript Calculator

* Understanding of how to use arithmetic operators.
* Applying the assignment operator = to store results.
* Practice with conditional statements.

## Workshop #5, Guessing game

* Practice with boolean operators like ===, &&, and ||.
* Understanding the use of while loops combined with condition checks.
* Reinforcement of the use of assignment and arithmetic operators within a loop.

## Workshop #6 – Calculator

* Creating and using simple functions.
* Creating a safeguard agains division by zero, so using conditional statements inside a function.

## Workshop #7 and #8 – Arrays

* Working with arrays and applying array methods to perform various operations on arrays.
* A basic understanding of how arrays work in JavaScript.
* A generic overview of some array methods that are available in JavaScript and how they can be applied to real life data to construct an application.

## Workshop #9 – Objects

* Creating and using JavaScript objects and getting familiar with them.
* Constructing objects and using methods and parameters inside objects and calling them from other scripts or functions.

## Workshop #10 – Classes

* Understanding how to define and use classes in JavaScript.
* Learn about the constructor function to initialize class properties by passing parameters/arguments into the constructor.
* Practice in creating and using methods within classes.
* Ability to instantiate objects and interact with their methods and properties.

## Workshop JSON

* Understanding how to serialize JavaScript objects to JSON strings.
* Learning about the JSON.stringify() method and using it in a script.
* Ability to parse JSON strings back into JavaScript objects using JSON.parse().
* Familiarity with accessing object properties after parsing JSON.