

# Introduction to Web Development: JavaScript

## Class 4: Exercises

1. Be able to build strings using a variety of methods with a focus on using template literals.
  - a. Define less than ten JavaScript variables in a variety of different datatypes. Be sure to use meaningful names with each of these variables. Format the names using camel case.

```
// EXAMPLE: (make up your own, this is an example)  
const autoMake = 'Ford';  
const autoModel = 'F150';  
const autoBrand = 'Lightning';  
const autoYear = 2023;  
const powerSystem = 'Electric';  
const ownerFullName = 'Danny Williams';  
const ownerAddress = '1234 Water Way';
```

- b. Output the variables to the console as a string and to a web page as a block of html. (see examples from the lectures).
2. Write some code demonstrating the following with arrays and their related methods
  - a. Create two numeric arrays.
  - b. Create an array of words
  - c. Create a mixed array
  - d. check the length of an array
  - e. determine if an object is an array
  - f. get the values from an array for a given position in the array.
  - g. overwrite a value in the array at a specific position.
  - h. find the position (or index) of a value in an array
  - i. add to the end of an array
  - j. add to the front of an array
  - k. take off from the end of an array
  - l. take off from the front of an array
  - m. take out from the middle of an array
  - n. reverse an array
  - o. sort a character based array
  - p. sort a numeric array
3. Build an Object Literal with a number of attributes (fields), an array, an embedded object, and a relevant function for the object.