Fall 2025-2026

Arrow Functions

Objectives:

- This assignment is designed to assess your understanding of JavaScript arrow functions, their syntax, behavior, and differences from traditional functions.

Instructions:

1. Before starting the assignment, read the article on JavaScript arrow functions and watch the video tutorial from the following links.

   Arrow functions, the basics

   https://www.youtube.com/watch?v=h33Srr5J9nY&list=PLZlA0Gpn_vH-0FlQnruw2rd1HuiYJHHkm&index=4

2. Answer the following questions.

Questions:

Part 1: Conceptual Questions

1. What is an arrow function in JavaScript and how does its syntax differ from a regular function expression?
2. In what circumstances can you omit the parentheses around the parameter list? Provide an example.
3. Create an arrow function with three parameters and a multiline body that calculates the average of the three numbers.

Part 2: Coding Exercises

1. Convert the following traditional functions into arrow functions:

```javascript
function isPositive(num) {
  return num > 0;
}

function greet(name) {
  return "Hello, " + name + "!";
}

function randomNumber() {
  return Math.random();
}
```