Classroom Assignment: JavaScript Functions

Learning Objective:

Understand different ways to declare functions in JavaScript and how to use callback functions.

Expected Completion Time:

Best Case: 15 min

Average Case: 20 min

Assignment Details:

Complete the following tasks to practice function declarations, arrow functions, anonymous functions, and callback functions in JavaScript.

Assignment Requirements:

Task 1: Function Declaration

Create a function named `userProfile` that takes a `name` as a parameter and logs "Hello, <name>!" to the console.

Task 2: Arrow Function

Create an arrow function named `double` that takes a number as a parameter and returns double its value.

Task 3: Anonymous Function

Use an anonymous function with `setTimeout` to log `"This message is delayed by 2 seconds"` after 2 seconds.

Task 4: Callback Function

Create a function named `getUserData` that takes a callback function as a parameter. Inside `getUserData`, simulate fetching data with `setTimeout` and then call the callback function with a user object after 3 seconds.

Call the `getUserData` function and log the user's name and age using the callback function.

Expected Outcome:

Upon completion, you should be able to:

- Understand how to declare and use different types of functions in JavaScript.

- Learn how to implement and use callback functions.

- Understand asynchronous operations using callbacks.