

CDAC Mumbai

Module: WPT

Topic: Lab Assignment

Based on Callback Function

Exercise 1:

Create a function `processData` that takes two parameters: a string and a callback function. Your task is to write a callback that converts the string to uppercase and then call it within `processData`.

Requirements:

- Define a function `toUpperCase` that will serve as a callback.
- Pass a string and `toUpperCase` to `processData` and log the output.

Exercise 2:

Write a function `forEachElement` that accepts an array and a callback. This function should apply the callback to each element of the array.

Requirements:

- Pass an anonymous function as the callback that multiplies each element by 2 and logs the result with the index.

Exercise 3:

Simulate a network request by creating a function `fetchData` that takes a URL and a callback as parameters. Use `setTimeout` to simulate a delay and then call the callback with a string representing a response.

Requirements:

- After a delay, log the “response” to the console.

Exercise 4:

Modify fetchData from Exercise 3 to include error handling.

Requirements:

- Call the callback with an error message if an error occurs; otherwise, pass the “response.”
- Handle the error gracefully by logging it if it occurs.

Exercise 5:

Using fetchData from Exercise 4, create another function processData that simulates processing the fetched data. Chain these functions together using nested callbacks.

Requirements:

- First, call fetchData. Once the response is received, pass it to processData.
- processData should modify the data and log the processed result.