Module: WPT

Topic: Lab Assignment-4
Based on Callback Function

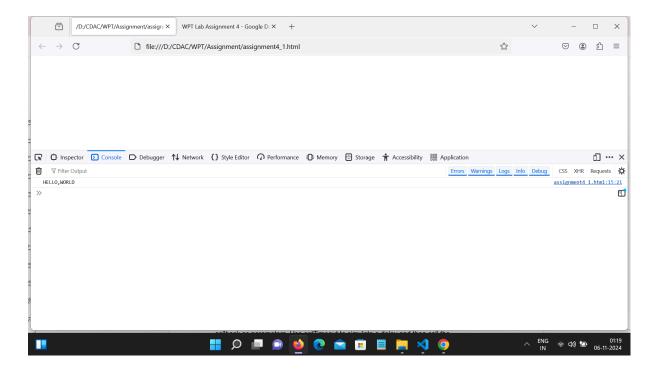
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## Exercise 1:

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:

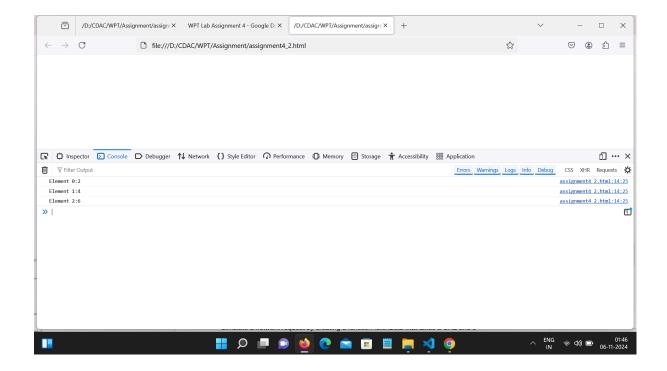
- Define a function to Upper Case that will serve as a callback.
- Pass a string and toUpperCase to processData and log the output.



## 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.



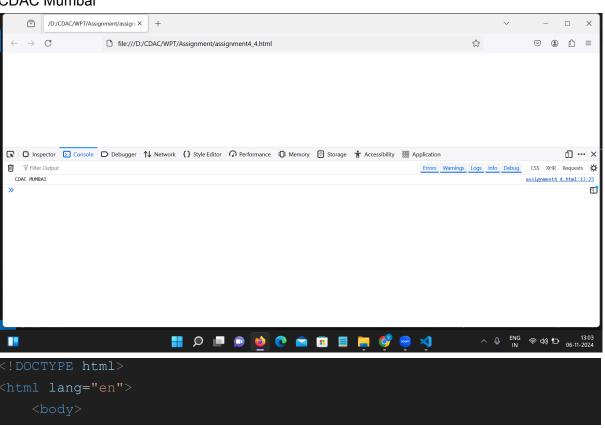
#### Exercise 3:

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.

## **CDAC Mumbai**



```
function fetchData(url,callback)

{
    setTimeout(()=>{
        const data='CDAC MUMBAI';
        callback(data);
    },2000)
}

fetchData("https://www.google.co.in/",(response)=>{
        console.log(response);
    })
    </script>
    </body>
</html>
```

## 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.

```
fetchData("https://www.google.co.in/", (err, response) =>{
                             console.error(err);
                             console.log(response);
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!DOCTYPE html>
html lang="en">
                 function fetchData(url,callback)
```

```
callback(null,data);
                  fetchData("https://www.google.co.in/", (err, response) => {
                               console.error(err);
                               console.log(response);
                  });
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```

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.

```
!DOCTYPE html>
Chtml lang="en">
           function fetchData(url,callback)
                       callback(null, data);
           function processData(data,callback) {
               setTimeout(() => {
                   callback(null,processedData);
                   console.error(err);
                   console.log(data);
                   processData(data, (err,processedData) => {
                            console.error(err);
                            console.log(processedData);
```



