# Emerging Technology Lab

## Assignment 4

## Asynchronous JS, AXIOS, JSON Server, HTTP Methods, and Status Codes

1. Create a function **division** to take two numbers as arguments and perform the division operation. The function should return the response after 3 seconds. If the second number is zero, create a promise that will reject the operation; resolve otherwise. Call the function with possible parameters. Use async/await and try/catch to display possible outcomes.
2. Write an asynchronous function that will generate a random integer number between 1 and 100 after 3 seconds. Write another function that will check whether the number is even or odd by using a promise. If the number is even the promise will resolve and reject otherwise. Use async/await and try/catch to call both the functions and display the generated number and also display if it is even or odd.
3. Fetch products from https://fakestoreapi.com/products using js and in the HTML page display the product image, name and price in product card format. Use async/await for asynchronous data fetching and try/catch to handle possible errors.
4. Create a JSON server with 3 student records. Each student has an id, name, branch, and CGPA. Run the server and perform the following operations using vanilla JS, and AXIOS. Use async/await and try/catch whenever required.
    a. Create an HTML form to add a new student to the JSON server file.
    b. Display all the available student records in an HTML file in a tabular format
    c. Create two buttons **Update** and **Delete** with each row to perform an update and delete operation.
    d. On the update page populate the form with the existing data (name, branch, and CGPA) and update the student with newly given details.
    e. Create a search field to search students based on their names.
    f. Create easy navigation between these pages and style the pages with CSS.