

## Emerging Technology Lab

### Assignment 4

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

1. Create a function **checkAge** that takes a person's age as an argument and checks if they are eligible to vote. If the age is 18 or above, resolve the promise after 2 seconds; if below 18, reject the promise. Use `async/await` and `try/catch` to call the function and display a message indicating whether the person is eligible to vote.
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 prime or not by using a promise. If the number is prime 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 axios. 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.