

## Registration form for Learning Project-I

Roll No	Regd No	Name of the Student
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**Proposed Project Title:** Design and Development of an Interactive Web-Based Mathematical Toolkit.

**Abstract:**

This project is aimed at building an interactive, web-based mathematical toolkit that allows users to easily perform various basic mathematical operations. The main idea behind the project is to simplify how users, especially students interact with fundamental math concepts like factorials, prime numbers, simple arithmetic and much more.

**Current Progress:**

So far, we have completed the first version of the toolkit, which includes a fully functional **factorial calculator**.

The website is designed using modern front-end technologies to ensure that it looks good and works well on both desktop and mobile devices.

Educational content has also been added to help users understand the math behind the tool, not just use it.

**Technologies Used:**

The toolkit is made using HTML, Tailwind CSS, and JavaScript. The logic is kept simple and easy to understand. In the next steps, we are planning to add backend support with Node.js, Express.js, and MongoDB so that we can include more features and handle data better.

**Future Work:**

Moving forward, we aim to enhance the toolkit through the following developments:

1. A tool to **check prime numbers** and generate a list of primes in a given range.
2. A **basic calculator** for operations like addition, subtraction, multiplication, and division and also Support for **other number operations**, such as finding GCD, LCM, and performing exponentiation.
3. Integration of a **backend system** that can help us store user inputs or create user accounts.

We aim to provide a useful, expandable math tool that combines practical functionality with an educational experience.

### Official Use

<b>Group No:</b>	<b>Section: CSE-C</b>	<b>Category: Web development</b>
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**Panel Member**

**Class Teacher**

**Mr. Bhavani Sankar Panda**  
**Project Coordinator, 2<sup>nd</sup> Year**