Training Day 9 Report

Date: 08 July 2025

S.T.E.P – Science & Technology Entrepreneurs' Park, GNDEC, Ludhiana

Topic Covered: JavaScript – Revision & Core Concepts

Introduction

The ninth day of the MERN Stack training was focused on revisiting JavaScript fundamentals and diving deeper into advanced JavaScript concepts. We strengthened our understanding of programming logic, syntax, and structures, which are essential for building dynamic web applications.

Topics Revised

1. JavaScript Basics:

- Use of `console.log()` for debugging

- Variables: `var`, `let`, `const`

- Data types: string, number, boolean, null, undefined

- Arithmetic and logical operators

- Conditional statements (`if`, `else if`, `else`)

2. Control Structures:

- `if-else` statements with multiple conditions

- `switch` statements for cleaner multi-case evaluations

    - let day = "Monday";

    - switch(day) {

    - case "Monday":

    -   console.log("Start of the week");

```
○    break;

○    case "Friday":

○    console.log("Weekend ahead");

○    break;

○    default:

○    console.log("Midweek");

○    }
```

Activities Performed

- Practiced conditional logic using JavaScript

- Debugged code using browser developer tools

- Built a basic logic-based calculator using JavaScript

Task of the Day

Create a web page where:

- The user enters two numbers

- Selects an operation (Add, Subtract, Multiply, Divide)

- The result is shown using JavaScript