

Training Day 10 Report

Date: 09 July 2025

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

Topic Covered: JavaScript – Loops, Functions, Arrays & Objects

Introduction

Day 10 focused on deeper JavaScript programming: looping through data, organizing logic in functions, and working with arrays and objects. These are essential concepts in frontend development and for handling real-time user interactions.

Topics Covered

1. Loops in JavaScript:

- for, while, do...while loops
- Control statements: break, continue
 - `for (let i = 1; i <= 5; i++) {`
 - `if (i === 3) continue;`
 - `console.log(i);`
 - `}`

2. Functions

- Function declaration and parameters
- Return values
- Arrow functions vs regular functions
 - `function greet(name) {`
 - `return "Hello, " + name;`
 - `}`

- `const sum = (a, b) => a + b;`

3. Arrays and Objects

- Creating arrays and using methods like `push()`, `pop()`, `length`
- Creating objects and accessing properties
 - `let student = {`
 - `name: "Abhishek",`
 - `age: 21,`
 - `course: "MERN Stack"`
 - `};`
 - `console.log(student.name);`

Activities Performed

- Practiced loops and writing custom functions
- Built a simple calculator using JS functions and conditionals
- Created arrays and objects to represent real-life data

Task of the Day

Create a web page where:

- The user enters two numbers
- Selects an operation: Add, Subtract, Multiply, or Divide
- The result is calculated and displayed using JavaScript