Day 9 – Daily Diary (Training TR-102)

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Topic Covered: JavaScript – Revision & Core Concepts

◆ What I Learned Today:

On the ninth day of my training, we revised **JavaScript fundamentals** and focused on its **core concepts** to strengthen our understanding. This session was designed to ensure that we were comfortable with basic programming in JavaScript before moving on to more advanced topics.

We revisited important concepts such as **variables, data types, operators, conditional statements, and loops**. The trainer explained the differences between var, let, and const, and highlighted **scope and hoisting** in JavaScript. We also discussed **functions**, their definition, calling methods, and the concept of **return values**.

Additionally, the session included **arrays and objects**, which are fundamental for storing and manipulating data. I learned how to create arrays, access elements, loop through arrays, and perform operations such as push, pop, and splice. Objects were introduced as key-value data structures, essential for organizing data in web applications.

◆ Activities Performed:

1. Revised basic JavaScript syntax and commands.

2. Practiced declaring variables using var, let, and const.

3. Wrote programs using conditional statements (if, else if, switch) and loops (for, while, do-while).

4. Created and invoked functions with parameters and return values.

5. Worked with arrays to store, access, and manipulate data.

6. Explored objects and their properties, accessing and updating values.

7. Solved small coding exercises to reinforce learning of arrays and objects.

8. Discussed the role of core JavaScript concepts in web development and dynamic web applications.

◆ Skills Gained:

- Strong understanding of JavaScript fundamentals and programming logic.

- Ability to write functions, use loops, and apply conditional statements effectively.

- Knowledge of arrays and objects for data storage and manipulation.

- Understanding of variable types, scope, and hoisting.

- Confidence in solving basic coding challenges and debugging programs.

Reflection:

Today's session was very valuable as it **reinforced my understanding of JavaScript fundamentals**, which is essential before moving on to DOM manipulation and advanced topics.

I realized that arrays and objects are powerful tools for managing data, and functions help in writing reusable, modular code. Revising core concepts increased my confidence in writing JavaScript programs and gave me a solid foundation to build interactive and dynamic web applications in the upcoming sessions.

Overall, Day 9 strengthened my **JavaScript programming skills** and prepared me for more complex tasks like DOM manipulation, event handling, and integrating JavaScript with HTML and CSS.