Day 8 – Daily Diary (Training TR-102)

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 Topic Covered: Introduction to Programming, Scripting & Query Languages + Introduction to JavaScript

 ◆ **What I Learned Today:**

On the eighth day of my training, we were introduced to **programming concepts, scripting, and query languages**, followed by an introduction to **JavaScript**, the most widely used programming language for web development.

The session began with a discussion on **programming basics**, such as variables, data types, operators, conditional statements, loops, and functions. We learned the difference between **compiled and interpreted languages**, and the role of scripting languages in making webpages dynamic and interactive.

The trainer explained the importance of **query languages** like SQL for accessing and managing databases. We also discussed how **JavaScript** interacts with HTML and CSS to create dynamic, interactive web pages. Key concepts introduced included variables, data types, operators, and basic programming logic in JavaScript.

 ◆ **Activities Performed:**

1. Learned the fundamentals of programming, scripting, and query languages.

2. Practiced creating variables and performing operations in JavaScript.

3. Explored JavaScript data types, operators, and expressions.

4. Wrote simple programs using conditional statements (if, else) and loops (for, while).

5. Integrated JavaScript into HTML pages using <script> tags.

6. Experimented with displaying output using console.log() and alert().

7. Discussed the role of JavaScript in creating dynamic content on websites.

 ◆ **Skills Gained:**

- Basic understanding of programming and scripting concepts.

- Knowledge of variables, data types, operators, and control structures in JavaScript.

- Ability to write simple JavaScript programs and integrate them into web pages.

- Understanding the role of JavaScript in enhancing interactivity and user experience.

- Awareness of query languages and their use in database interaction.

Reflection:

Today's session was highly informative and foundational for **web development**. Learning JavaScript introduced me to programming logic and dynamic behaviour in websites, which is essential for building interactive applications.

I realized that JavaScript is the bridge between static HTML/CSS pages and interactive, user-friendly websites. Practicing simple programs and integrating them with web pages helped me understand how programming concepts apply in real-world web development.

Overall, Day 8 strengthened my **programming foundation** and prepared me for more advanced JavaScript concepts in the upcoming sessions, which will be essential for front-end and full-stack development projects.