**Internship Report – Day 7**

Date: 10 June 2025

Topic: String Splitting, Expressions, and Evaluation in Java

Summary:

On the seventh day of our internship, we focused on two important concepts in Java: String Splitting and Expression Evaluation.

1. String Splitting in Java:

We learned how to use the split() method of the String class.

This method is used to divide a string into an array based on a specified delimiter.

Example:

String sentence = "Java is fun";

String[] words = sentence.split(" ");

// Output: ["Java", "is", "fun"]

2. Expression and Evaluation in Java:

We understood how Java evaluates mathematical and logical expressions.

Priority of operators (operator precedence) and associativity were discussed.

Example:

int result = 10 + 2 \* 5; // Evaluates to 20, not 60

// Explanation: Multiplication (\*) has higher precedence than addition (+)

We also practiced writing and evaluating expressions involving variables and method calls.

Learning Outcome:

Gained practical experience in handling strings and manipulating them using split().

Understood how Java evaluates expressions step-by-step.

Applied the knowledge in small exercises and sample programs.

Conclusion:

Today’s session enhanced our understanding of two foundational Java concepts — string manipulation using the split() method and the evaluation of expressions. These are essential for writing efficient and logical code. By practicing these topics, we improved our problem-solving skills and became more confident in handling string operations and understanding how Java processes expressions internally. This knowledge will be highly useful in future programming tasks and projects.