**Day 4 Internship Report**

Date: 5 June 2025

Topic Covered: Data Types, Type Casting, and Wrapper Classes in Java

Activities and Learning:

On the fourth day of our internship, we focused on foundational concepts in Java programming, specifically:

1. Data Types in Java:

We learned about the different types of data in Java, including:

Primitive Data Types: int, float, char, boolean, etc.

Non-Primitive Data Types: Strings, Arrays, and Objects.

2. Type Casting:

We understood how to convert one data type into another, which is essential for data manipulation:

Implicit Casting (Widening Conversion): Automatically done by the compiler.

Example: int a = 10; double b = a;

Explicit Casting (Narrowing Conversion): Requires manual casting.

Example: double a = 10.5; int b = (int) a;

3. Wrapper Classes:

We studied how Java provides wrapper classes for each primitive data type (e.g., Integer, Double, Character, etc.), which allow us to:

Convert primitive types into objects.

Use useful methods like parseInt(), valueOf(), etc.

Perform boxing (primitive → object) and unboxing (object → primitive).

Practical Session:

We practiced writing Java programs using:

Type casting operations.

Wrapper class methods like Integer.parseInt(), Double.valueOf(), etc.

Conclusion:

The session helped us understand the importance of data type conversion and how wrapper classes provide flexibility and additional functionality when working with data in Java.