**📝 19th Day Internship Report**

Date: 26 June 2025

Topic: Constructor and Static Method in Java

Today’s Learning Summary:

On the 26th day of the internship, we learned about two important concepts in Java: Constructors and Static Methods. These concepts are foundational for object-oriented programming and class design in Java.

**1. Constructor in Java**

A constructor is a special method that is automatically called when an object is created.

It has the same name as the class and does not have a return type.

Used to initialize object properties.

Example:

class Student {

String name;

Student(String n) { // Constructor

name = n;

}

}

Types of Constructors:

Default Constructor – No parameters.

Parameterized Constructor – Takes arguments to initialize values.

**2. Static Method in Java**

A static method belongs to the class, not the object.

It can be called without creating an object.

Defined using the static keyword.

Example:

class MathUtils {

static int square(int x) {

return x \* x;

}

}

// Called as:

MathUtils.square(5);

Key Points:

Static methods can access only static data.

Commonly used for utility or helper functions.

**Conclusion:**

We concluded that:

Constructors are essential for initializing objects and improve code readability.

Static methods provide a way to use class-level behavior without needing an object.

Understanding these helps in writing well-structured, reusable, and memory-efficient Java programs.

This session strengthened our knowledge of object creation and method classification in Java.