**Internship Report -3rd Day**

Date: 4 June 2025

Topic: Understanding Types of Variables and Writing Java Programs

On the third day of our internship, we focused on learning about types of variables in Java and how to implement them in basic Java programs. The session helped us strengthen our foundation in Java programming by explaining the classification and scope of variables, as well as demonstrating their practical use through coding examples.

Key Learnings:

1. Types of Variables in Java:

Local Variables: Declared inside a method or constructor and accessible only within that block.

Instance Variables: Non-static fields defined in a class and accessible through objects.

Static Variables: Declared using the static keyword and shared among all instances of a class.

2. Java Program Practice:

We wrote simple Java programs demonstrating each type of variable.

Understood how variable scope affects the behavior of the program.

Practiced compiling and running Javaprograms in an IDE or terminal.

Example Program:

public class VariableExample {

static int staticVar = 10; // static variable

int instanceVar = 20; // instance variable

void display() {

int localVar = 30; // local variable

System.out.println("Static Variable: " + staticVar);

System.out.println("Instance Variable: " + instanceVar);

System.out.println("Local Variable: " + localVar);

}

public static void main(String[] args) {

VariableExample obj = new VariableExample();

obj.display();

}

}

Conclusion:

The third day of our internship was highly productive and educational. We gained a clear understanding of the different types of variables in Java—local, instance, and static—and their roles in programming. By writing and executing simple Java programs, we strengthened our basic coding skills and learned how variable scope affects program behavior. This knowledge is essential for building more complex Java applications in the future.