

## **27th June 2025 (Friday)**

The industrial training officially began at ANSH InfoTech, Ludhiana, one of the reputed institutes known for its practical-oriented IT programs. The first two-hour session was primarily an orientation and setup session, where the instructor introduced us to the course roadmap and objectives. The mentor explained that over the coming weeks, we would start with core Java programming, move toward Android application development, and finally work on building a fully functional Android Chat Application as our final project.

The instructor elaborated on how Java forms the backbone of Android app development since most Android APIs and SDKs are Java-based. This session helped establish the motivation to first strengthen our Java programming fundamentals before jumping into Android Studio. We were guided through the installation and configuration of the Java Development Kit (JDK), setting up environment variables, and testing the configuration through simple command-line programs. We also installed Android Studio, though we were told that hands-on Android development would start after a week of Java practice.

Once the setup was done, the instructor demonstrated the structure of a basic Java program. We discussed components like class declaration, the main() method, and syntax rules such as case sensitivity, semicolon termination, and indentation. I wrote my first “Hello World” program in Java using both the command prompt and the integrated development environment (IntelliJ). This exercise gave me confidence in compiling and running basic programs independently.

Later, we had a short discussion on the role of JVM (Java Virtual Machine) and how Java achieves platform independence through bytecode execution. The mentor used diagrams to explain the difference between JDK, JRE, and JVM, highlighting their respective roles. The final segment of the class included a preview of the tools we would use later in Android — such as XML for layout design, Firebase for backend, and RecyclerView for displaying dynamic lists. The overall session, though introductory, helped me mentally prepare for the upcoming technical journey and understand the logical flow of learning that ANSH InfoTech follows.