

## Learning Basic Java: A Student's First Step into Programming

Aiman was a first-year computer science student who had always been curious about how software worked. One day, his lecturer introduced the class to Java, a popular programming language used to build mobile apps, web systems, and enterprise software. At first, Java looked confusing with its strange symbols and keywords, but as Aimana continued learning, he realized that Java follows clear rules and logical thinking.

Java is known as an object-oriented programming language. This means that Java programs are built using objects, which represent real-world entities such as students, cars, or bank accounts. Each object contains attributes (data) and methods (actions). This concept helps programmers organize code in a clean and reusable way.

The first Java program Aimana learned was the famous “Hello World” program. He discovered that every Java program must have a class, and the program starts running from a special method called main. Java also uses syntax rules, such as ending statements with semicolons and writing code inside curly braces. These rules help the computer understand exactly what the programmer wants.

Next, Aimana learned about variables and data types. Variables are used to store information, such as numbers or text. Java requires every variable to have a data type, such as int for whole numbers, double for decimal values, and String for text. This strict typing helps prevent errors and makes programs more reliable.

As Aimana progressed, he was introduced to control structures like if-else statements and loops. These structures allow a program to make decisions and repeat actions. For example, a loop can be used to print a message multiple times, while an if-else statement can check whether a student passed or failed an exam.

Finally, Aimana learned why Java is so widely used. Java programs can run on different platforms because of the Java Virtual Machine (JVM). This feature follows the principle “write once, run anywhere.” With this knowledge, Aimana felt confident and motivated to continue learning more advanced Java topics in the future.

Learning Java taught Aimana not only how to write code but also how to think logically and solve problems step by step. It was the beginning of his journey into the world of programming.