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Lab 1: Step-by-Step Creation of a Simple Java Program

Objective: The goal of this lab is to guide you through the process of creating a simple Java program step by step. By following these instructions, you will gain hands-on experience in understanding the structure of a Java program and running it to see the output.

Task: Creating and Running a Simple Java Program

Part 1: Setting Up the Framework

1. Open your preferred Integrated Development Environment (IDE) for Java programming.

2. Create a new Java class named `SimpleProgram`.

3. Start your program with a class declaration.

Part 2: Writing the Main Method

1. Inside the `SimpleProgram` class, create the `main` method. This method serves as the entry point for program execution.

Part 3: Displaying a Message

1. Within the `main` method, use a statement to display the message "Hello, Java!" on the console.

   Hint:
   You can use the System.out.print() or System.out.println() statement for this purpose. The println() method adds a newline character at the end, while print() does not.

Part 4: Running the Program

1. Save your Java file.

2. Compile the program to ensure there are no syntax errors.

3. Execute the compiled program to see the output.

Questions:

1. Write a complete java program that prints the following in **SEPARATE** lines:
   a. Programming is fun!
   b. Fundamentals First
   c. Problem Driven

2. Write a complete java program that prints the following in **SAME** lines:
   a. Programming is fun!
   b. Fundamentals First
   c. Problem Driven

3. Write a complete java program that sum and prints the following:
   a. Any two numbers
   b. Any three numbers
   c. Subtract the current year from the year of your date of birth

Conclusion:

In this lab, you followed a step-by-step process to create a simple Java program. By setting up the program's framework, writing the `main` method, and displaying a message on the console, you gained insight into fundamental Java program structure. Running the program provided a practical demonstration of the program's execution and output. This exercise serves as an introduction to Java programming concepts and sets the stage for more complex coding tasks.