### Weekly Progress Report

**Name:** Kapil Rai  
**Domain:** Core Java  
**Date of Submission:** 14 July 2024

**Week Ending:** 14th July 2024

#### I. Overview:

This week, the primary focus was on understanding the basics of Java, including its history and running the first Java program. Additionally, I learned about project submissions.

#### II. Achievements:

**Java Basics:**

* 1. Learned about the history of Java.
  2. Understood the fundamental concepts of Java.

**Running the First Java Program:**

* 1. Successfully wrote and executed the first Java program.
  2. Familiarized myself with the Java development environment and tools.

**Project Understanding and Submission:**

* 1. Gained insights into the structure and requirements of Java projects.
  2. Learned the process for submitting projects.

#### III. Challenges:

**Initial Setup:**

* 1. Faced challenges in setting up the Java development environment.
  2. Overcame these by referring to official documentation and online resources.

**Understanding Syntax:**

* 1. Initially struggled with understanding Java syntax and error messages.
  2. Sought help from online forums and tutorials to clarify doubts.

#### IV. Lessons Learned:

**Java Setup and Environment:**

* 1. Learned the importance of correctly setting up the development environment for smooth coding experience.

**Problem-Solving Techniques:**

* 1. Developed problem-solving techniques by troubleshooting setup and syntax issues.
  2. Improved my ability to search for and apply solutions from online resources.

#### V. Next Week's Goals:

**More Java Concepts:**

* 1. Dive deeper into Java concepts such Why java is platform independent and many more (OOP) .
  2. Start working on more complex Java programs to solidify understanding.

**Project Work:**

* 1. Begin contributing to Java projects, focusing on writing clean and efficient code.
  2. Collaborate with peers for code reviews and feedback.

#### VI. Additional Comments:

This week has been highly productive and informative. I have gained a solid foundation in Java, which I believe will be beneficial for my future projects. The challenges faced and lessons learned have provided valuable experience in problem-solving and adapting to new technologies.