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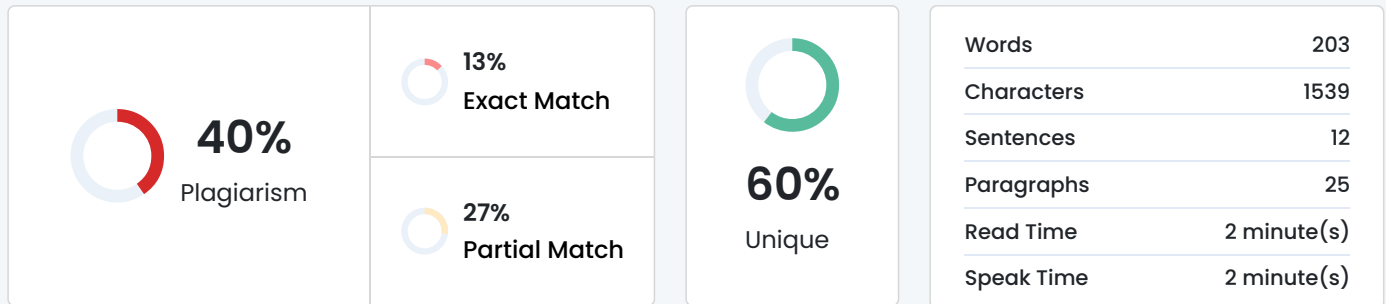|	
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SOFTWARE ENVIRONMENT

1. Java

Java is a popular, versatile, and powerful programming language. It has been essential for building enterprise-level, web, and mobile applications, especially for Android. Key advantages of Java include:

• Platform Independence (Write Once, Run Anywhere): Java applications can run on any device with a Java Virtual Machine (JVM), making it highly portable across different platforms (Windows, Mac, Linux).

• Object-Oriented Programming (OOP): Java supports object-oriented concepts like inheritance, polymorphism, abstraction, and encapsulation, promoting code reusability, maintainability, and scalability.

• Robust and Secure: Java has built-in security features such as memory management, exception handling, and automatic garbage collection, ensuring robust error handling and preventing memory leaks.

• Large Ecosystem and Community: Java benefits from a vast community and a large number of libraries and frameworks (e.g., Spring, Hibernate), which reduce development time and effort.

• Multithreading Support: Java can handle multiple tasks simultaneously, making it ideal for high-performance, concurrent processing applications like real-time systems.

• Scalability: Java's scalability allows it to handle large-scale systems like banking platforms and enterprise applications effectively.

• Memory Management: Java automatically handles memory allocation and garbage collection, ensuring efficient memory use and avoiding leaks.

• Backward Compatibility: Older Java applications can run on newer ver

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Java is a popular, versatile, and powerful programming language that runs on most platforms. It is known for its robust security, reliability, and performance. Java is used in a wide variety of industries, such as banking, e-commerce, and technology.

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https://www.geeksforgeeks.org/java-memory-management