Platform Independency in

Java

Assignment

(Core Concept)

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**1.** What does the term "platform" mean in the context of computing, and why is it crucial for software development?

**Ans -** In computing, a platform refers to the hardware and software environment where applications run. It's crucial for software development as it provides a standardised foundation for creating and executing programs.

**2.** Explain the difference between platform dependency and platform independency in the context of software development. Provide examples for each?

**Ans -** Platform dependency means software relies on specific hardware or software, limiting its portability (e.g., Windows-specific programs). Platform independency allows software to run on various platforms (e.g., Java applications are platform-independent).

**3.** While C remains a widely used programming language, what are some perceived limitations or challenges that might be considered as a failure in specific contexts?

**Ans -** C, despite its popularity, faces challenges such as manual memory management, lack of built-in support for modern features, and potential vulnerabilities due to its low-level nature, which can be considered limitations in specific contexts.

**4.** Identify key factors contributing to the success of the Java programming language. How do these factors differentiate Java from other languages?

**Ans -** Java's success stems from features like platform independence, strong community support, and robust security. These factors differentiate Java by providing a versatile and reliable environment for developing applications across diverse platforms.