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HND 1

1) WRITE A SHORT NOTE ON THE EVOLUTION OF NET FRAMEWORK AND C# (100WORDS)

The .NET Framework, introduced by Microsoft in 2002, evolved from a Windows-centric platform to the cross-platform .NET 5 in 2020, unifying .NET Core and the traditional framework. Alongside, C# emerged in 2000 as a modern, object-oriented language for .NET. It has since grown with features like LINQ, async/await, and cross-platform compatibility, reflecting a commitment to adaptability and developer productivity. Ongoing updates, such as .NET 6, showcase Microsoft's dedication to a unified, high-performance platform and a versatile programming language.

2) Explain the following terms; Mono, Xamarin, COM, .Net Core, Unity C#,REST

Mono: allows cross-platform execution of .NET applications.

Xamarin: Enables cross-platform mobile app development using C# and .NET.

COM: Ensuring interoperability between different applications.

.NET Core: An open-source, cross-platform version of the .NET framework

Unity C#: Used for developing interactive games across multiple platforms.

REST: An architectural style for designing networked applications

3) Critically,explain ANY three key functions of CLR(50 words)

CLR Key Functions:

Managed Execution: Manages memory and resources

Garbage Collection: frees up memory by identifying and collecting unused objects.

Security: Ensuring safe execution of managed code.