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MSA, PMOC, PMP®, PRP®, PSE-ITP®, CS, ITIL, MCP®, MCSD



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Programming - Level 2

What is Cryptography

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What is What is Cryptography?

- Cryptography is a method of protecting information and communications through the use of codes, so that only those for whom the information is intended can read and process it.
- In computer science, cryptography refers to secure information and communication techniques derived from mathematical concepts and a set of rule-based calculations called algorithms, to transform messages in ways that are hard to decipher.
- These deterministic algorithms are used for cryptographic key generation, digital signing, verification to protect data privacy, web browsing on the internet and confidential communications such as credit card transactions and email.

- In C#, you can use the System.Security.Cryptography namespace to work with cryptographic functions.
- Here's a brief overview of some commonly used cryptographic operations in C# such as:
 - Hashing
 - Symmetric Encryption
 - Asymmetric Encryption (Public Key Cryptography)



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Thank You

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