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### ICS Lab A5

#### \* FAQ's

Q1) List down some Hashing Algorithms.

Ans

1) MD-5

2) SHA-1

3) SHA-2 (224 & 256 / 384 & 512)

4) SHA-3 (224 / 256 / 384 / 512)

Q2) What is the MD5 message - digest algorithm?

Ans

MD5 (Message digest Algorithm 5) is a widely used cryptographic hash function that produce a 128-bit (16 byte) hash value, typically represented as a 32-character hexadecimal number. It was designed by Ronald Rivest in 1991 & is commonly used for checksums & data integrity verification. However, MD5 is now considered insecure for cryptographic purposes due to vulnerabilities that allow for collision attacks, where different inputs can produce the same hash value. As a result, more secure hash functions like SHA-256 are recommended for cryptographic applications.

Ans SHA-256, SHA-3, BLAKE2 are secure alternatives to the MD-5 algorithm

Q4) Difference between MD5 & SHA algorithm

Ans MDS is less secure; SHA is more robust for integrity.



