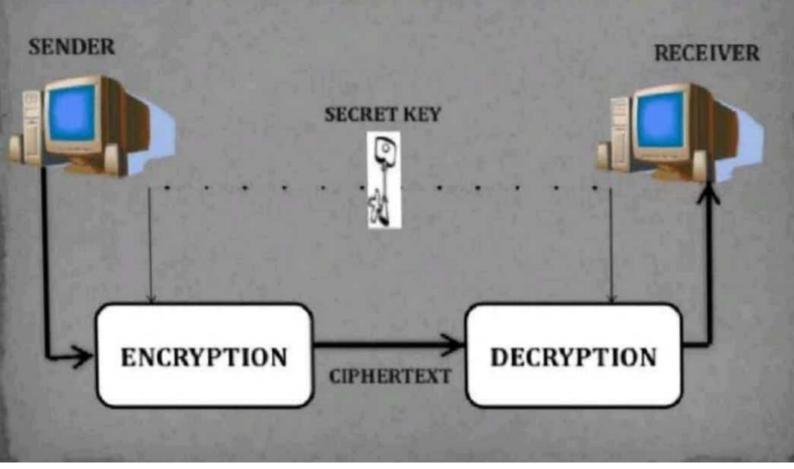
CRYPTOGRAPHY

 Cryptography is the science and art of transforming messages to make them secure and immune to attack.

SYMMETRIC KEY CRYPTOGRAPHY

 Also known as secret key. Sender & receiver uses same key & an encryption/decryption algorithm to encrypt/decrypt data. i.e. the key is shared.

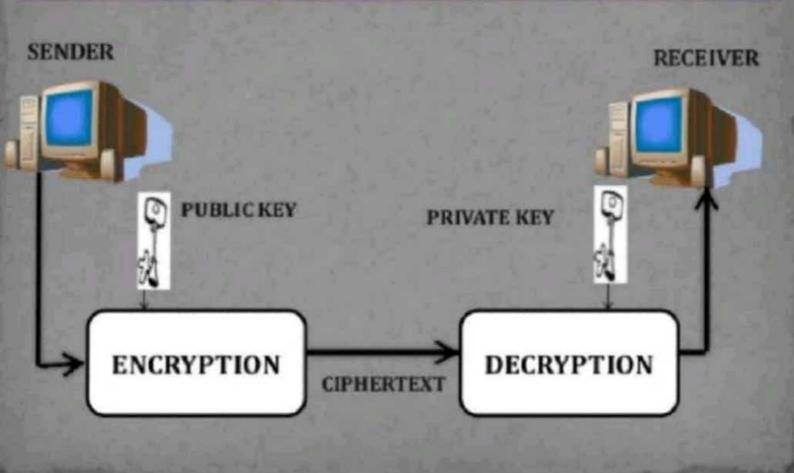
SYMMETRIC KEY CRYPTOGRAPHY



ASYMMETRIC KEY CRYPTOGRAPHY

 Also known as public key cryptography.
Sender & receiver uses different keys for encryption & decryption namely PUBLIC & PRIVATE respectively.

ASYMMETRIC KEY CRYPTOGRAPHY



COMPARISON

SYMMETRIC KEY CRYPTOGRAPHY

- The same algorithm with the same key is used for encryption and decryption.
- The key must be kept secret.
- It may be impossible or at least impractical to decipher a message if no other information is available.

ASYMMETRIC KEY CRYPTOGRAPHY

- One algorithm is used for encryption and decryption with a pair of keys, one for encryption and one for decryption.
- One of the two keys must be kept secret.
- It may be impossible or at least impractical to decipher a message if no other information is available.

What is Digital Signature?

- Digital Signature is a type of asymmetric cryptography used to simulate the security properties of a signature in digital, rather than written, form.
- Digital Signature is an electronic signature that can be used to authenticate the identity of the sender of a message or the signer of a document, and possibly to ensure that the original content of the message or document that has been sent is unchanged.