Viva questions

q-1) What is difference between cryptography and steganography?

A-)



q-2) What is cryptosystem

A-2) A cryptosystem is a structure or scheme consisting of a set of algorithms that converts [plaintext](https://www.techtarget.com/searchsecurity/definition/plaintext) to [ciphertext](https://www.techtarget.com/searchsecurity/definition/cipher) to encode or decode messages securely.

**Components of cryptosystems**

A basic cryptosystem includes the following components:

* Plaintext- This is the data that needs to be protected.
* Encryption algorithm- This is the mathematical algorithm that takes plaintext as the input and returns ciphertext. It also produces the unique encryption key for that text.
* Ciphertext- This is the encrypted, or unreadable, version of the plaintext.
* Decryption algorithm- This is the mathematical algorithm that takes ciphertext as the input and decodes it into plaintext. It also uses the unique decryption key for that text.
* Encryption key- This is the value known to the sender that is used to compute the ciphertext for the given plaintext.
* Decryption key- This is the value known to the receiver that is used to decode the given ciphertext into plaintext.

q-3) What is cryptanalysis?

A-)Cryptanalysis is the study and process of analyzing and decrypting ciphers, codes, and encrypted text without using the real key. Alternately, we can say it’s the technique of accessing a communication’s plain text content when you don’t have access to the decryption key.

Put simply, [cryptanalysis](https://www.techtarget.com/searchsecurity/definition/cryptanalysis) is the practice, science, or art of decrypting encrypted messages.