

1. Encoding

Encoding is a way of representing text information in a format that is more convenient for people to work with.

Example:

Sending text over a network.

The computer does not understand the plain text. we need to convert the plain human readable text into a machine code language.

2. Encryption

While encoding is used to represent the same information in a more convenient way for the people. Encryption instead comes in to hide information from the people from not being publicly accessible to everyone. Only authorized specific people can access our data.

Example:

Secure data transmission over the network

Techniques like RSA.

3. Hashing

Hashing is one-way encryption. Means we are able to encrypt but not possible to decrypt.

Example:

Password encryption

Libraries like MD5 and bcrypt in node-Js use this technique of encrypting people's passwords.

