**ACTIVIDAD # 9**

**Tipo actividad: True/false**

**Questions about the previous text.**

1. In symmetric cryptography, different keys are used for encryption and decryption.

**Answer:** False

**Explanation:** Symmetric cryptography uses the same key for both encryption and decryption.

1. Hash functions can be reversed, allowing the retrieval of the original plaintext.

Answer: False

Explanation: Hash functions are one-way and cannot be easily reversed to obtain the original plaintext.

1. Asymmetric cryptography involves the use of a single key for both encryption and decryption.

**Answer:** False

**Explanation:** Asymmetric cryptography uses a pair of keys - public for encryption and private for decryption.

1. Public Key Infrastructure (PKI) plays a role in ensuring data confidentiality in symmetric cryptography.

**Answer:** False

**Explanation:** PKI is associated with public-key cryptography and supports authentication and non-repudiation.

1. The Advanced Encryption Standard (AES) is an example of a symmetric encryption algorithm.

**Answer:** True

**Explanation:** AES is a widely accepted standard used for symmetric encryption.