

A simple Cipher which matches each letter in the message with a different letter according to a substitution rule

Cipher Logic:

Define a substitution table that maps each letter of the alphabet to its corresponding substitution letter. For simplicity, I'll use a fixed substitution table for this example. Or else a random substitution can be used and save that as a key

To encipher a message:

- Iterate over each character in the message.
- If the character is a letter, substitute it with the corresponding letter from the substitution table.
- If the character is not a letter (e.g., number, space or punctuation), leave it unchanged.
- Build the ciphered message by appending the substituted or unchanged character to the result.

To decipher a ciphered message:

- Iterate over each character in the ciphered message.
- If the character is a letter, find the corresponding original letter from the substitution table and substitute it back.
- If the character is not a letter, leave it unchanged.
- Build the deciphered message by appending the substituted or unchanged character to the result.