

Project 8: Caesar Cipher

Description

This project implements a Caesar cipher, a type of substitution cipher where each letter in the plaintext is shifted a fixed number of places down or up the alphabet. The user can choose to encode or decode a message by specifying the shift number. This simple encryption technique is useful for learning basic concepts of cryptography and data manipulation.

Key Technologies

- **Python:** Used for implementing the Caesar cipher logic, handling user input, and processing the text.
- **List Manipulation:** Utilized to manage and manipulate the list of characters for encoding and decoding.
- **Concepts Covered:** String manipulation, list indexing, and modular arithmetic for shift calculations.
- **Unique Features:** Provides an interactive way to encode and decode messages using a simple encryption algorithm.