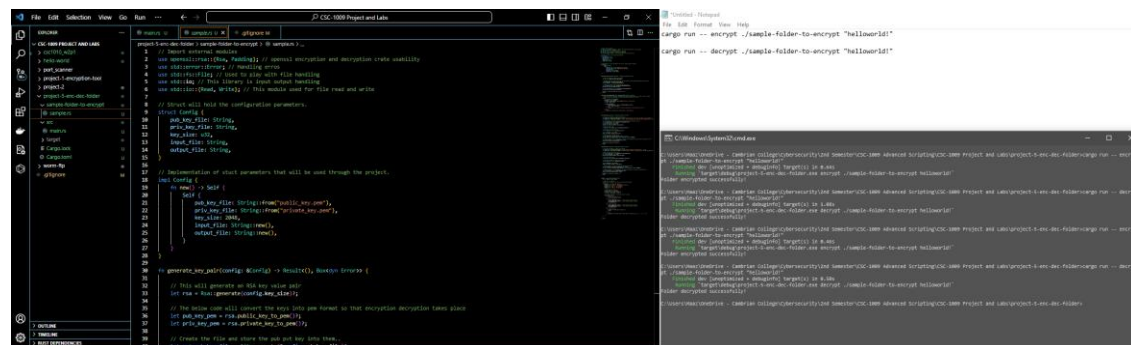
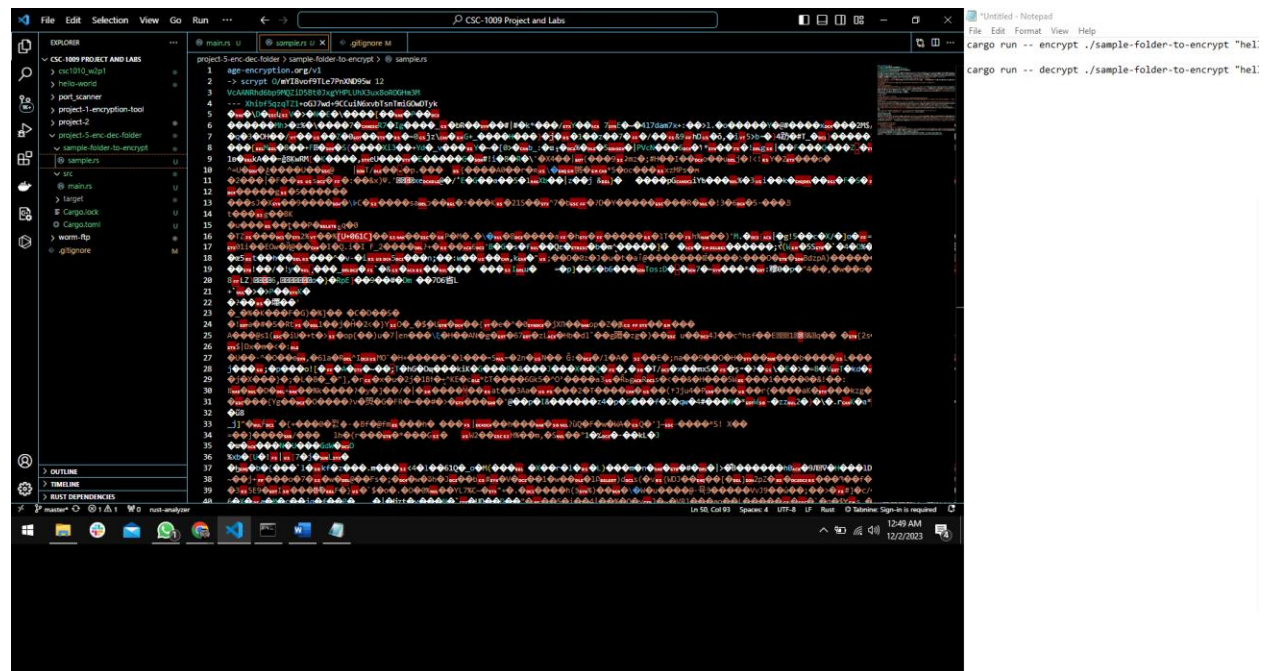
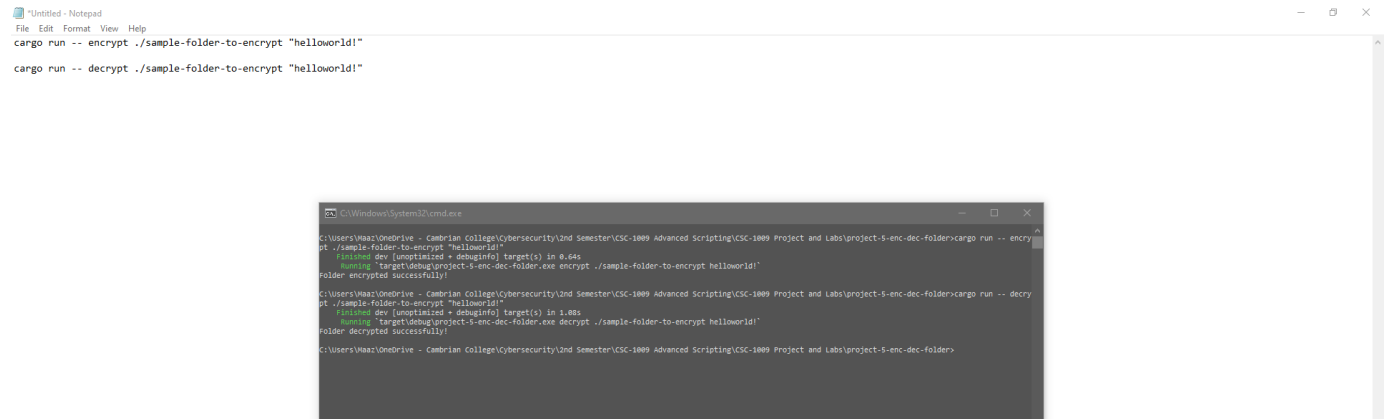


Screenshots:



Folder Encryption CLI Application Documentation

Overview

The Folder Encryption CLI Application is a command-line tool developed in Rust for encrypting and decrypting files within a folder. It provides a simple and secure way to protect sensitive data.

Functionality

- **Encryption**

The application encrypts all files in a specified folder.

Each file's content is encrypted using a user-provided passphrase.

The original files are replaced with their encrypted versions.

- **Decryption**

The application decrypts all files in a specified folder.

Decryption requires the same passphrase that was used for encryption.

The encrypted files are replaced with their decrypted versions.

Design

- **Command-Line Interface**

- The application operates entirely through the command line.
- It uses clap for parsing command-line arguments.
- Users can choose between two operations: encrypt or decrypt.

- **File Processing**

- walkdir is used to traverse the directory and process each file.

- Files are read and written using standard Rust file handling (`std::fs::File`).
- The application skips directories and only processes files.

- **Dependencies**

- clap: For creating a user-friendly command-line interface.
- age: For performing encryption and decryption operations.
- walkdir: For iterating over files in a directory.
- secrecy: For securely handling sensitive information like passphrases.

Usage Instructions

```
cargo run -- encrypt [path] [passphrase]
```

```
cargo run -- decrypt [path] [passphrase]
```

For Example:

As explained in the video.

```
cargo run -- encrypt ./sample-folder-to-encrypt "helloworld!"
```

```
cargo run -- decrypt ./sample-folder-to-encrypt "helloworld!"
```