










### 1. How Program directory should look.

Name	Date modified	Type	Size
 Vault	2023-07-21 8:53 PM	File folder	
 Encrypt Decrypt Program .c	2023-07-21 10:18 PM	C source file	5 KB
 Encrypt Decrypt Program .exe	2023-07-21 10:17 PM	Application	43 KB
 Encrypt Decrypt Program .o	2023-07-21 10:17 PM	O File	4 KB

### 2. Inside Vault folder (Any User file can be put in hear for encryption)

Sample  
Files

 f0.txt	2023-07-21 1:01 PM	Text Document	1 KB
 f1.txt	2023-07-21 2:46 PM	Text Document	12 KB
 img1.jpg	2023-05-10 4:27 PM	JPG File	3,766 KB
 img2.png	2023-07-18 8:49 AM	PNG File	15 KB
 pdf1.pdf	2020-10-20 11:12 AM	Adobe Acrobat D...	3,769 KB

### 3. CLI look when Encrypting.

```

File Encrypting Program

Encrypt[E] / Decrypt[D] : E
Enter File Name [with extension] : f1.txt
Output File Name [with extension] : EnF.txt
***** Encrypting *****

***** Success *****

Rerun[1/0]? :
```

Original  
File Name  
←  
Encrypted  
File Name  
←

4. Rerunning the program for Decrypting.

```
Rerun[1/0]? : 1

Encrypt[E] / Decrypt[D] : D
Enter File Name [with extension] : EnF.txt
Output File Name [with extension] : output.txt
***** Decrypting *****

***** Success *****

Rerun[1/0]? :
```

← Encrypted File Name

← Decrypted File Name

5. Encrypted and Decrypted files appears in the Vault folder.

Name		Date modified	Type	Size
EnF.txt	← Encrypted File	2023-07-21 11:27 PM	Text Document	12 KB
f0.txt		2023-07-21 1:01 PM	Text Document	1 KB
f1.txt	← Original File	2023-07-21 2:46 PM	Text Document	12 KB
img1.jpg		2023-05-10 4:27 PM	JPG File	3,766 KB
img2.png		2023-07-18 8:49 AM	PNG File	15 KB
output.txt	← Decrypted File	2023-07-21 11:28 PM	Text Document	12 KB
pdf1.pdf		2020-10-20 11:12 AM	Adobe Acrobat D...	3,769 KB

# Encrypting-Program

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This Simple Program written entirely from c language can encrypt and decrypt a binary file.

## Inputs

1. Mode: E for encrypting / D for decrypting.
2. File Name: Source file you want to encrypt/decrypt.
3. Output Name: A name for the processed file.
4. Rerun: To re-run the program.

## Outputs

1. Encrypted/Decrypted File

## Requirements:

1. A valid binary file to Encrypt (.txt, .jpg, .pdf, .png, .c, etc.)
2. Every Input/Output file MUST be inside "Vault/ "
3. Use "File\_Name.extention" format when giving names. [Sometimes program still runs without. extension]
4. Undefined inputs will lead to errors.

## Handled Error behavior:

1. Wrong mode
2. Input file doesn't exist.
3. Output file name already exist.
  - o user can overwrite it / give a new name.
4. wrong input for re-run.

## Other Notes:

- "Vault/" already has some sample files. You can use your own files.
- Encrypted file's extension doesn't have to be same as the original file.
- But decrypted file needs same extension as the original file to work properly.