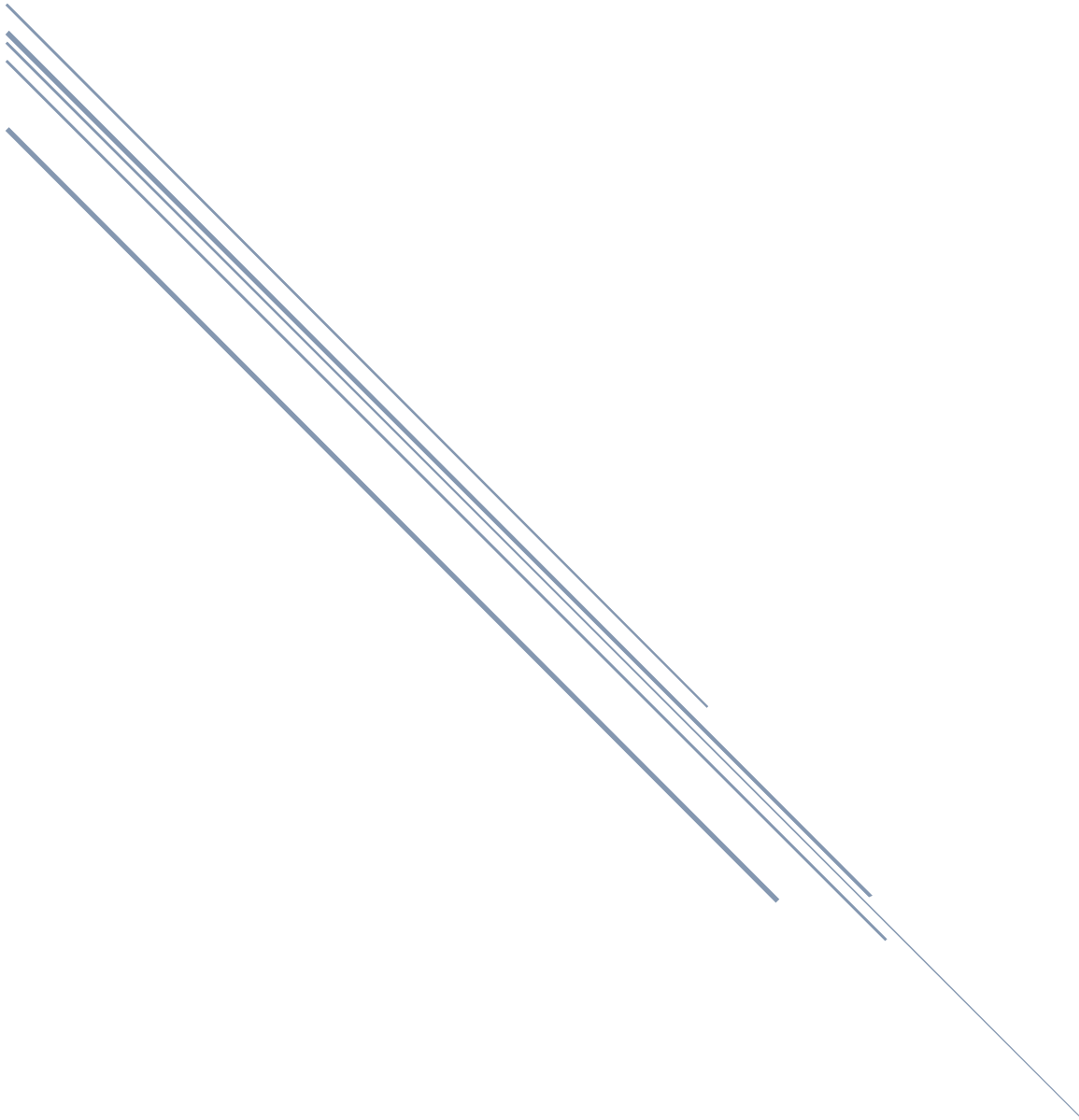


Project Report

CPCS425



STUDENT NAME : ROAA ALZHRANI
ID: 2005863

Flowchart



Pseudocode:

1. Create a JFile Chooser object for selecting input files
2. Set the dialog title for the input file chooser
3. Create a JFile Chooser object for selecting output directories
4. Set the dialog title for the output directory chooser
5. Set the file selection mode to directories only
6. Initialize choice as 0
7. Create a Scanner object for user input
8. while choice is not equal to 3:
 - a. Display menu options
 - b. Read user's choice
 - c. If choice is 1:
 - i. Display message
 - ii. Display dialog to select input file
 - vii. If the user approves the selection:
 - iii. Let input File be the selected file
 - v. Create a Buffered Reader object for input File to read input file
 - iv. Display dialog to select output directory
 - vii. If the user approves the selection:
 - Let output Directory be the selected directory
 - Let output File be a new file in output Directory
 - Create a Print Writer object for output File
 - Call the "encrypt" method from the "cipher" class, passing the Buffered Reader object and the Print Writer object
 - read the input file
 - Remove leading and trailing whitespace
 - Convert to uppercase
 - Move first half to the last half

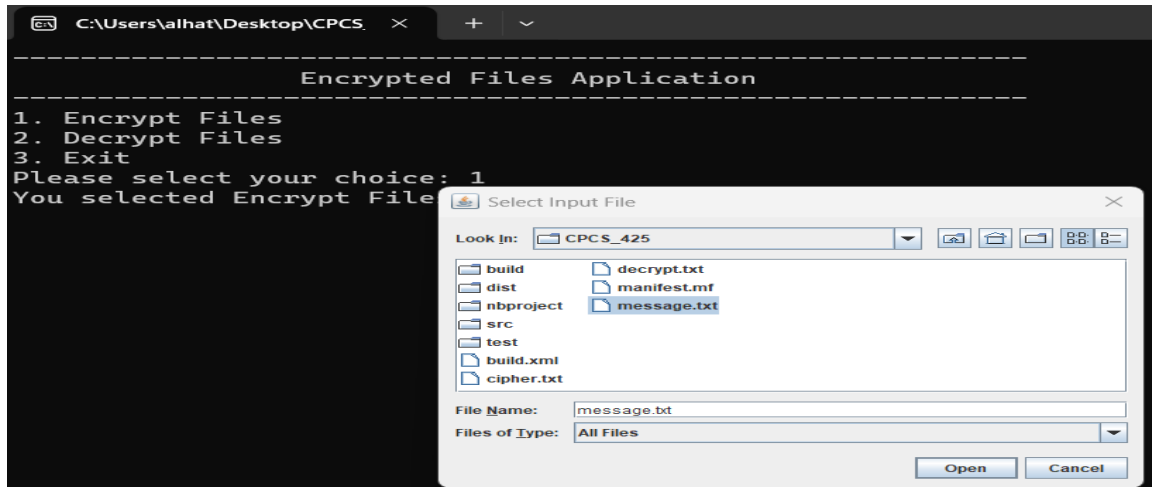
- Swap first 2 characters with last 2 characters
 - Swap two characters left of the middle with two characters that follow
 - Perform character substitutions
 - print the result on output file
 - Close the input and output stream
- d. If choice is 2:
- i. Display message
 - ii. Display dialog to select input file
 - vii. If the user approves the selection:
 - iii. Let input File be the selected file
 - v. Create a Buffered Reader object for input File to read input file
 - Let output File be a new file in output Directory
 - Create a Print Writer object for output File
 - Call the "decrypt" method from the "cipher" class, passing the Buffered Reader object and the Print Writer object
 - read the input file
 - Reverse character substitutions
 - Remove leading and trailing whitespace
 - Reverse swapping of two characters left of the middle with two characters that follow
 - Reverse swapping of first 2 characters with last 2 characters
 - Reverse moving first half to the last half
 - Convert to lowercase
 - print the result on output file
 - Close the input and output streams
- e. If choice is 3, display exit message and exit the loop
- f. If choice is invalid, display error message
9. Close the scanner object
10. End program

Output:

Print menu

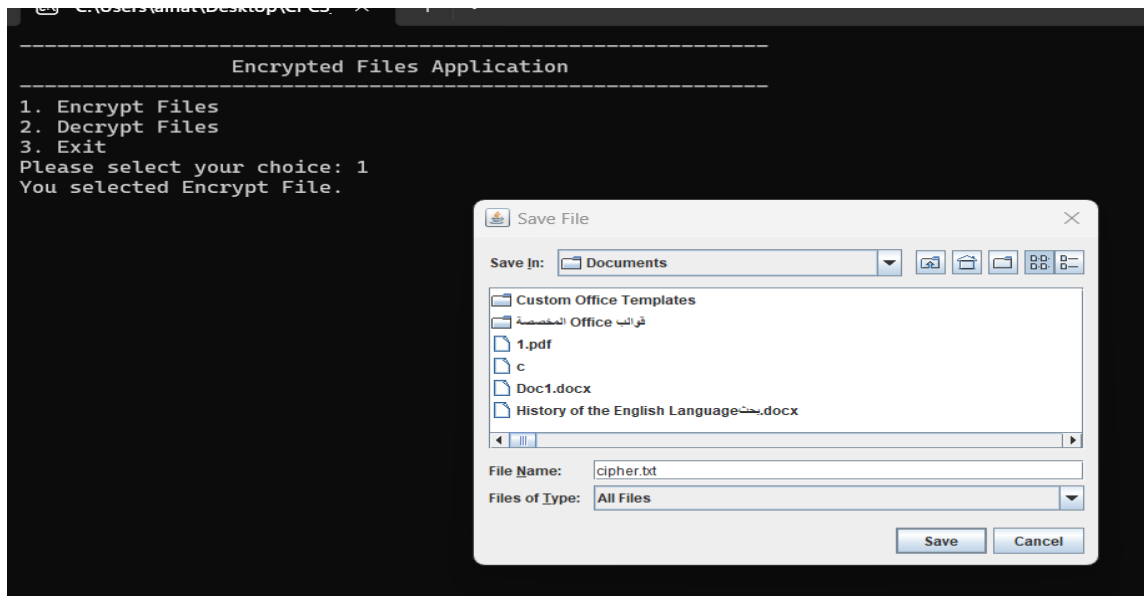
If choice encrypt file

Select the input file from the window



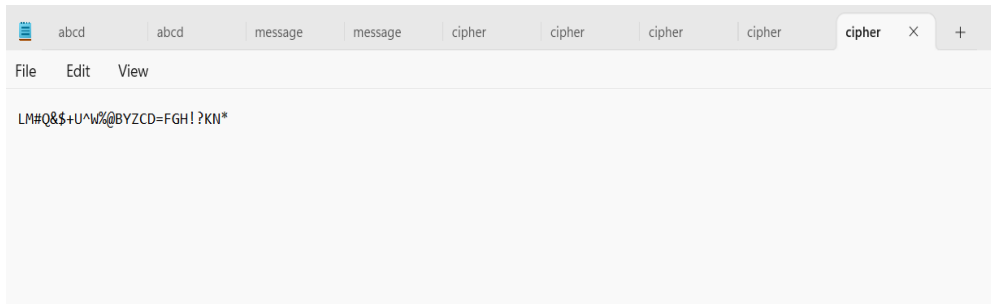
Select the directory of output file

Enter the name of output file

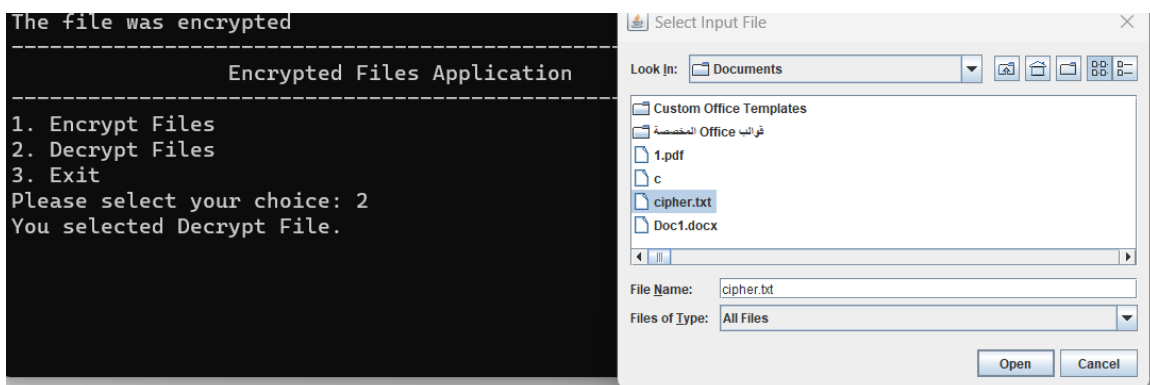


The file was encrypted

The result

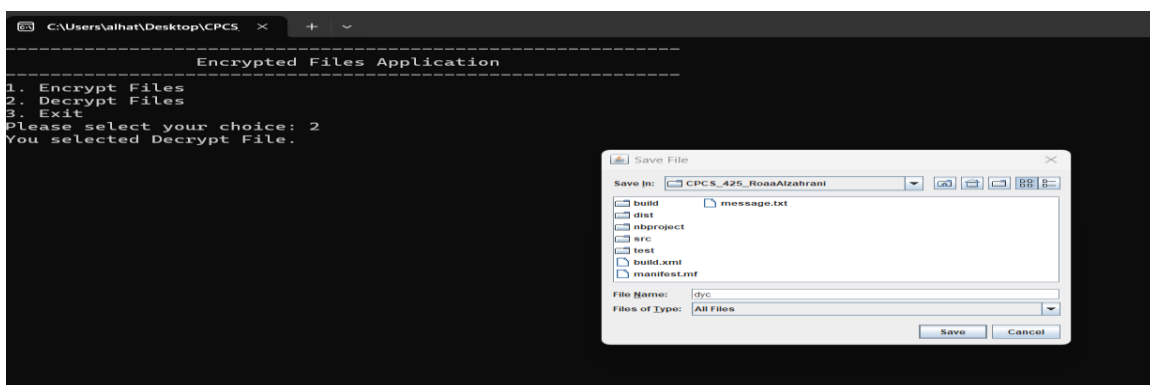


If select 2 decrypt file



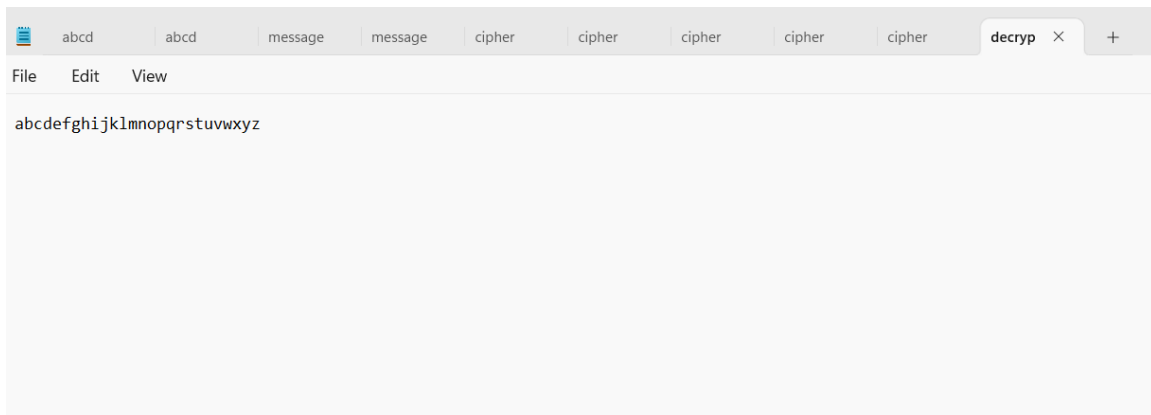
Select the directory of output file

Enter the name of output file



You selected Decrypt File
The file was decrypted

The result



If choice 3

```
-----  
Encrypted Files Application  
-----  
1. Encrypt Files  
2. Decrypt Files  
3. Exit  
Please select your choice: 3  
Exiting...
```

If select more than 3

