Assignment 6

Description of Script in Action

The program starts with a simple menu that would offer the user the following options:

- 1. Create a File
- 2. Write Text into file
- 3. Encrypt text in file
- 4. Decrypt text in file
- 5. Read text in file
- 6. EXIT

This document will show and explain how every section works.

1. Create a File

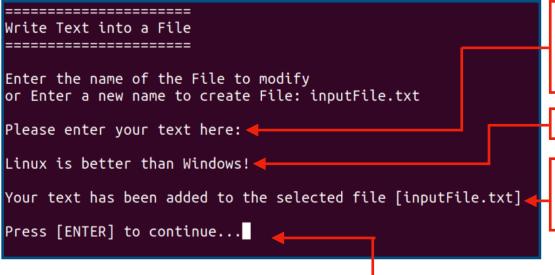
The "Create a File" option will assist the user on creating as many files as they need to, regardless if they are adding text to them or not.

For this particular example, we added a file named **inputFile.txt**

2. Write text into file

This section will give the User the option to write text into an existing file or to create a new one.

For this particular example, we will add some text into the **inputFile.txt** file.



After entering the name of the file that the User wants to work with, the User would be prompted to enter the text in the selected file.

Added Text

The User will receive a confirmation message that will show the file utilized to save the text.

When the User hits [ENTER], the program will go back to the Main Menu.

3. Encrypting text in file

Encrypting the Text in File

- 1) ROT13 Encryption
- 2) Caesar Cipher
- Return to Main Menu

Choose the type of Encryption:

For this section, the program will show 2 options for encryption and one to return to the main menu.

The Encryption Options will be:

- 1) ROT13 Encryption.
- 2) Caesar Cipher

ROT13: Encryption

ROT13
Encryption
Enter the file name to read: inputFile.txt

Enter the file name where you want to store the Encrypted text: outputFlie.txt

The current text in file is:
Enter than Windows!

Text after Encrypting using ROT13:
Enter Using Using ROT13:
Enter Encrypting Using RO

- The User will be asked to provide the file from where the program will read the text to be encrypted using ROT13.
 Then, the User will be asked to provide the name of the file to be used to store the encrypted text.
- > The Original Text will be printed on screen.
- > Then the Encrypted File will be displayed on screen as well.
- > A final confirmation from the system will be displayed, in regards to the file that contains the encrypted text.

Caesar Cipher: Encryption

This Section will work the same way as the Encryption for ROT13; however, in this case, the User will be asked to provide the number of times the cipher will shift to the left on the alphabet.

In this particular case, the User chooses to do 4 rotations.

The Original Message is:
Linux is better than Windows!

The Program will show a message that confirms the number of left shifts, per the User request, and will display the Encrypted message.

Pmryb mw dixxiv xler Amrhsaw

Before exiting this section, a confirmation message in regards to the file that will be used to store the encrypt-

4. Decrypting text in file

- ROT13 Decryption
- 2) Caesar Cipher
- return to Main Menu

Choose the type of Decryption:

For this section, the program will show 2 options for decryption and one to return to the main menu.

The Decryption Options will be:

- 1) ROT13 Decryption.
- 2) Caesar Cipher

ROT13: Decryption

ROT13
Decryption
Enter the file name to read: outputFile.txt

Enter the file name where you want to store the Decrypted text: outputFile2.txt

The current text in file is:
Enter the forggre guna Jvaqbjf!

Text after Decrypting using ROT13:
Enter the file name to read: outputFile2.txt] file.

Press [ENTER] to continue...

- > The User will be asked to enter the file where the Encrypted text is located at.
- > Then, the program will ask for the name of the file that will be used to store the Decrypted file.
- > Then, the program will print out the Encrypted Message on screen and right after, the Decrypted message will show up on screen.
- > A confirmation that the Decrypted message has been save in the selected file, will be shown on screen.

Caesar Cipher: Decryption

> For this section, the User will be asked, similar to the previous sections in the program, to provide a file name from where the text will be retrieved to Decrypt and the name of the file where the message will be stored. If the file provided by the user doesn't exist, the program will create it.
> The Encrypted text will be displayed on the screen, followed by the new Decrypted message.
> The program will confirm the name of the file where the Decrypted message was stored at.

> It is important to note that, we don't ask the user for the number of rotations needed to Decrypt the message because, I programmed the system to remember the number of rotations used to Encrypt the text in the first place.

This was accomplished creating a global variable that would hold the choice form the User at the time of the Encryption.

If needed, this can be easily changed, so the User gets asked about the number of rotations while Decrypting the message.

5. Read text in file

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EREADING THE TEXT IN A FILE

Reading the Text in a File

Please, enter the name of the file: inputFile.txt

The text in this file is the following:

Linux is better than Windows!

Press [ENTER] to continue...
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This section of the program will allow the User to read any file created to Encrypt or Decrypt text. The user will be requested to provide the name of the file and the text will be displayed on screen; regardless if the text have been Encrypted or Decrypted

6. EXIT

Selecting EXIT on the Main Menu, will terminate the program and will send the user to the command line in Terminal.

However, all the files created by the program, will stay stored on the computer. For instance, all files used to demonstrate the functionality of the application, stated saved on the Desktop and can be opened individually

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