Overview

## What the Application Does

The Excel application I created does a couple of things. First, the user can create/delete any new sheet(s) they want, then export the file(s) to a location of their choosing using a custom user form. They can choose the folder location with the folder browser. The file(s) is encrypted using a basic Caesar Cipher to change each character in the document. The new file is saved as with the extension “.crzy”. When a file is encrypted the date, number characters and pages encrypted are added to the Access database.

The application is also able to import “.crzy” files using the same user form from above. The file(s) is decrypted and added as a new sheet separate into cells the same way it was encrypted. When importing file(s) the only formatting done is widening the columns to make it a little easier to read. The user can select the file(s) they would like to import and with the file browser.

There is a custom user form for working with the chart/report. The user can choose between exporting a report or updating the chart with data from Access. When they choose to update, the application will grab all the data from Access then put it onto a hidden sheet. The data is then sorted, and the new information is plotted onto the chart. When they choose to export a word document is created with the name "Encryption \_Report.docx". The new word document is saved in the same path as the workbook and has information regarding the total, maximum, minimum, and average number of characters encrypted. They will also have a copy of the chart in the new document.

## Why I choose this option

The main reason was I thought the encryption part would have been interesting. Being able to export and import an encrypted file was something I felt would be beneficial to have experience with. Also, there was a bit of flexibility on how to create the user form to incorporate importing and exporting. I tried to make this assignment as modular as possible because I feel like there are some functions/subroutines that I can use in the future. Which is another benefit to choosing this option. Overall it was a fun application to write and I would recommend it!