# **CS 405 5-2 Activity: Encryption Coding**

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# **CS-405 Secure Coding**

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# **CS 405 5-2 Activity: Encryption Coding**

In this activity I was able to encrypt a text file that was provided. Using the XOR encryption algorithm, the data string was encrypted. This transformed each character in the data to the modular value. Using the ifstream I could read the file that was sent to the read\_file method, and then using the stringstream could read through the file and update the file\_text variable. This created the data as a string which could be saved to the file. Saving the file using ofstream so that I could create and write to the file the new data. Figuring out how to get the time in the correct format to save it correctly was the most challenging part due to getting errors for using certain ctime variables or methods. I used a time\_t variable, then got a value with the time method. Then using the tm\* variable, I could use localtime to get the value of the time\_t variable I created. It was then about formatting it to the YYYY-MM-DD format required. In the save\_data\_file method is where I could save the data to the file as described above which saved the data to the encrypteddatafile.txt and to the decrypteddatafile.txt files.

OUTPUT:

A computer screen shot of a black screen

AI-generated content may be incorrect.A screenshot of a computer program

AI-generated content may be incorrect.