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CS-405

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Encryption

This program uses the standard procedures to open a file and read it in as a string. It does so by using a getline function that only ends when it hits a null terminator which would indicate the end of a string and not typically found in a file. Thus the whole file is read into one string.

Then the program reads the data in as it is programed to, and after that the data is passed to the encryptor. Here the source character is used with a xor of the key character in the same position moded by the key length and put into the output file in the same position. This information is then saved to the encrypted file.

After this the same process happens but the source file is now the encrypted file, and so the process decrypts the file and it is saved to the decrypted file. The file saving process opens the file output stream with the filename of the inputting call. This creates a file if it does not exist, or overwrites it if it does. Then the components are added as requested: Student name, date, key, and the data.

Text

Description automatically generated