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Project Proposal
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Encryption Application

For this project, I plan to put together an application that will encrypt data. A window will be opened up and the user prompted to enter text, insert a file path, or possibly encrypt a photo or document. For the encryption of the text, the text, if within a file, will be converted into a string and run through a series of scrambling methods/algorithms. A file with the scrambled characters will be created along with a key to be used to decrypt it. The decryption will use the same algorithms in reverse along with the key to tell the program which values to use in order to revert the text back to its original state.

For doing the encryption, as of right now I plan on changing each of the letters in the string into character values and stored individually into array. These character values in the array will then be put into an equation where the values for that equation will be randomly picked from an array of options. Those index numbers will act as the key for the inverse equation that will be encrypted to a lower level, themselves, using a different algorithm. Depending on how secure, this process can be repeated as many times as wanted to make the data more and more secure.