

File Encryptor & Decryptor

The program will begin by prompting the user in the console, asking if they would like to have the text file they are about to enter be encrypted or decrypted. Once the user chooses, the input will undergo validation. If the file is not validated, then the program will tell the user to enter another text file, notifying the user that the file was invalid. This loop will keep running until the user has entered a valid text file. If the text file is validated (shown to be a valid text file), then the program will read it and then write a new one that encrypts/decrypts the text file using a Caesar Cypher (rotating the ascii keys a set amount either in the positive direction of the negative direction). The program will then display the new encrypted/decrypted file as a separate text file in the console. After, the program will prompt the user again, asking if the user would like to encrypt/decrypt another text file. If the user decides to enter another text file, then the program will run again. If the user says no, then the program will terminate. The program will have a logic class that includes all the methods used (such as the text file validation and the Caesar Cypher algorithm) as well as a main class that controls the flow of the program. If there is time after this is completed, then I will implement a new GUI class that uses the same logic class as before, but displays it in a window that lets the user respond to prompts via text fields and submitting them with on-screen buttons. After the text file is encrypted/decrypted, a new window will appear that displays the text file to the user. Same as before, the user will be able to enter another text file if they so choose;