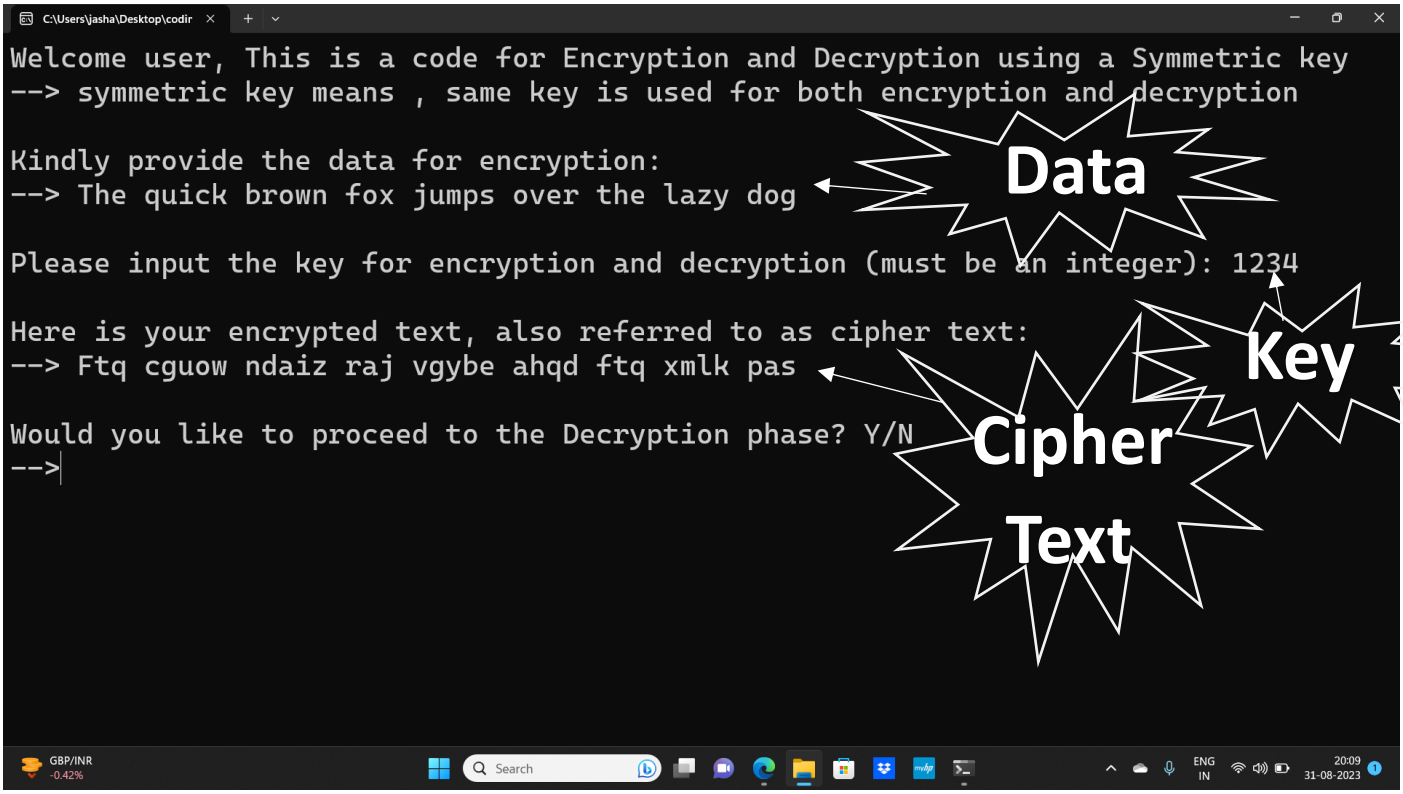
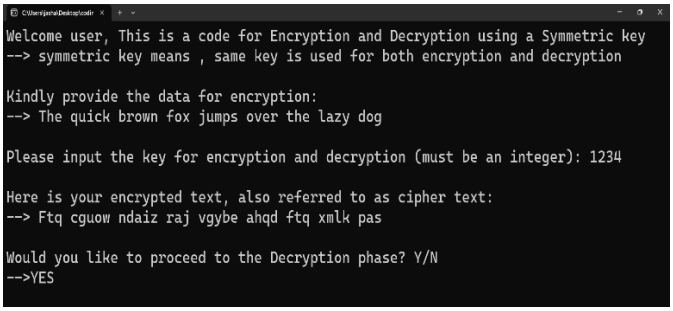
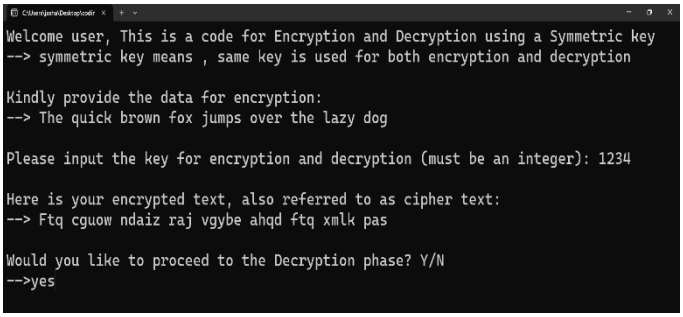
Input/Output File

1.) The process begins by requesting input of the data intended for preservation. Following this, the system will prompt for a designated key. This key serves a dual purpose: both as an encryption and decryption tool. Once the key is provided, the system will exhibit the encrypted text, thereby finalizing the procedure. The process ensures secure storage and retrieval of the specified data.

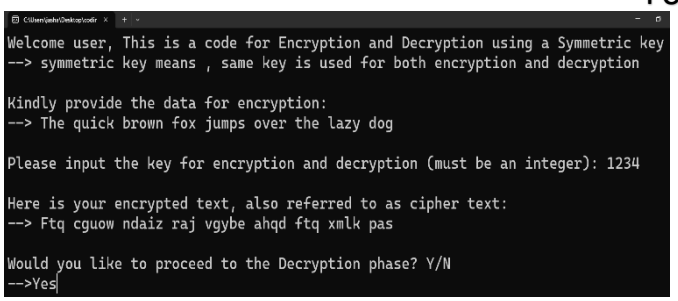


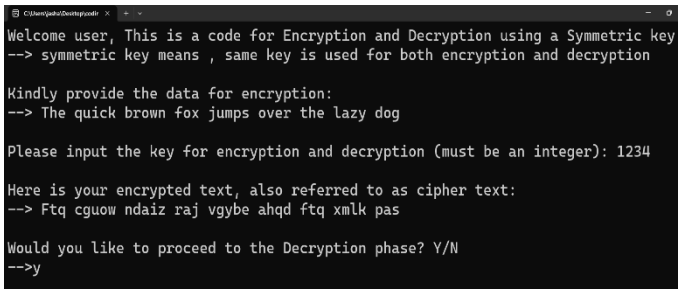
2.) Subsequently, the program will prompt the user to indicate their preference regarding continuation. Should the user's input include variations of "yes" (such as y, Y, Yes, YES, yes, etc.), the code will progress to the subsequent stage. In the event that the user provides variations of "no" (such as n, N, No, NO, no, etc.), the code will cease its operation. For any responses not conforming to these specified options, the code will terminate its execution. This design ensures user engagement in a streamlined and intuitive manner.

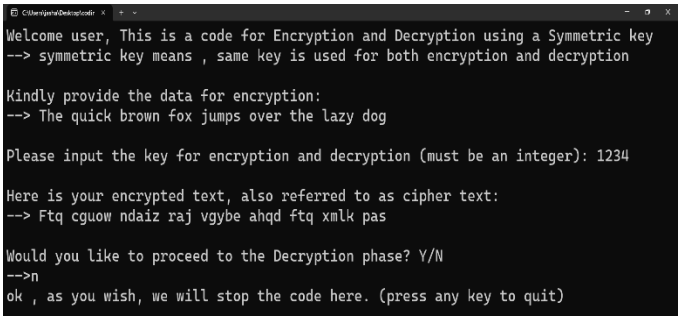


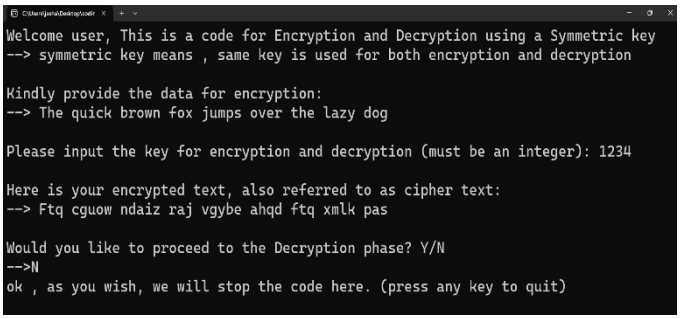


For yes

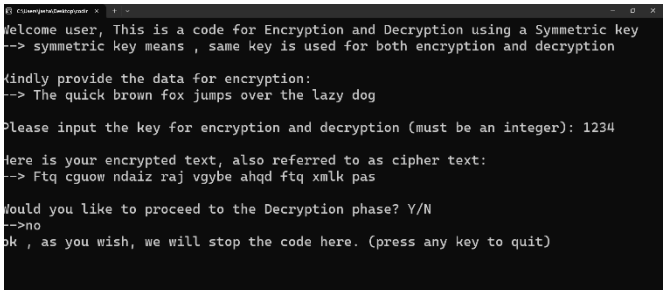


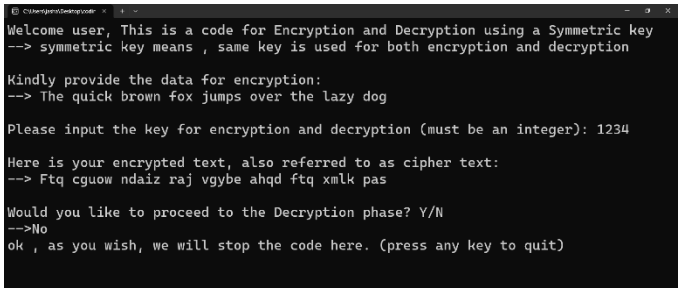




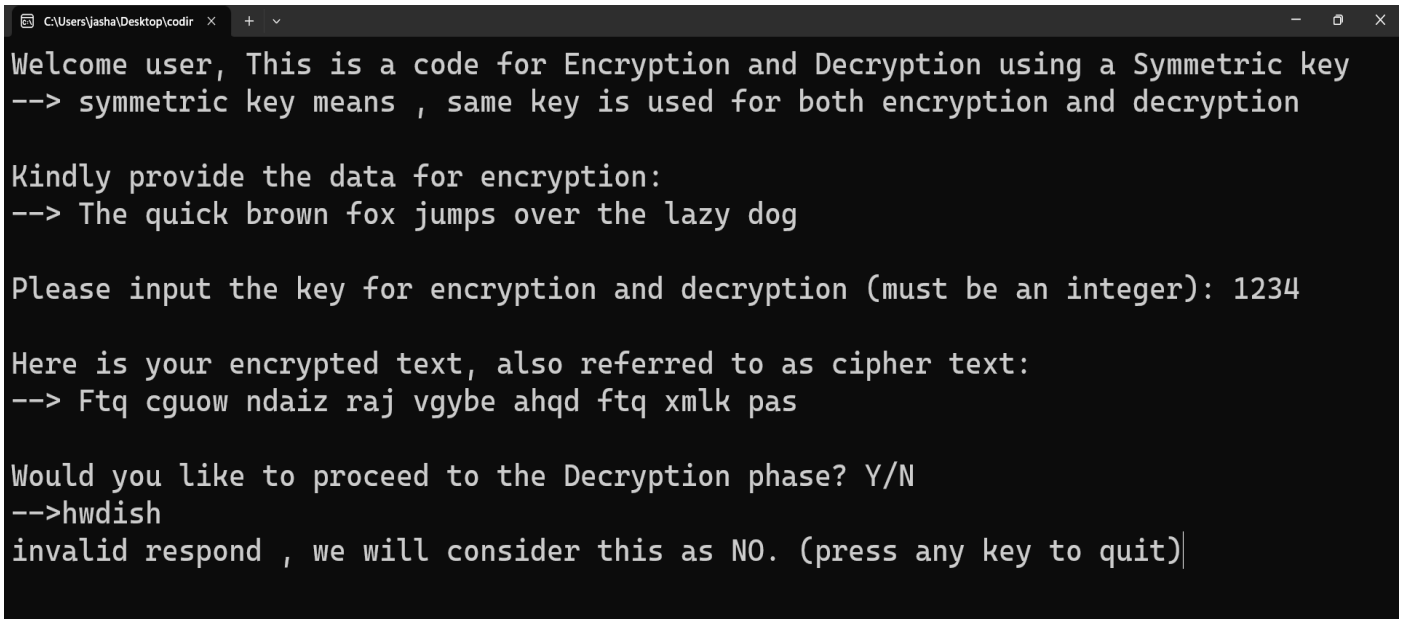


For No

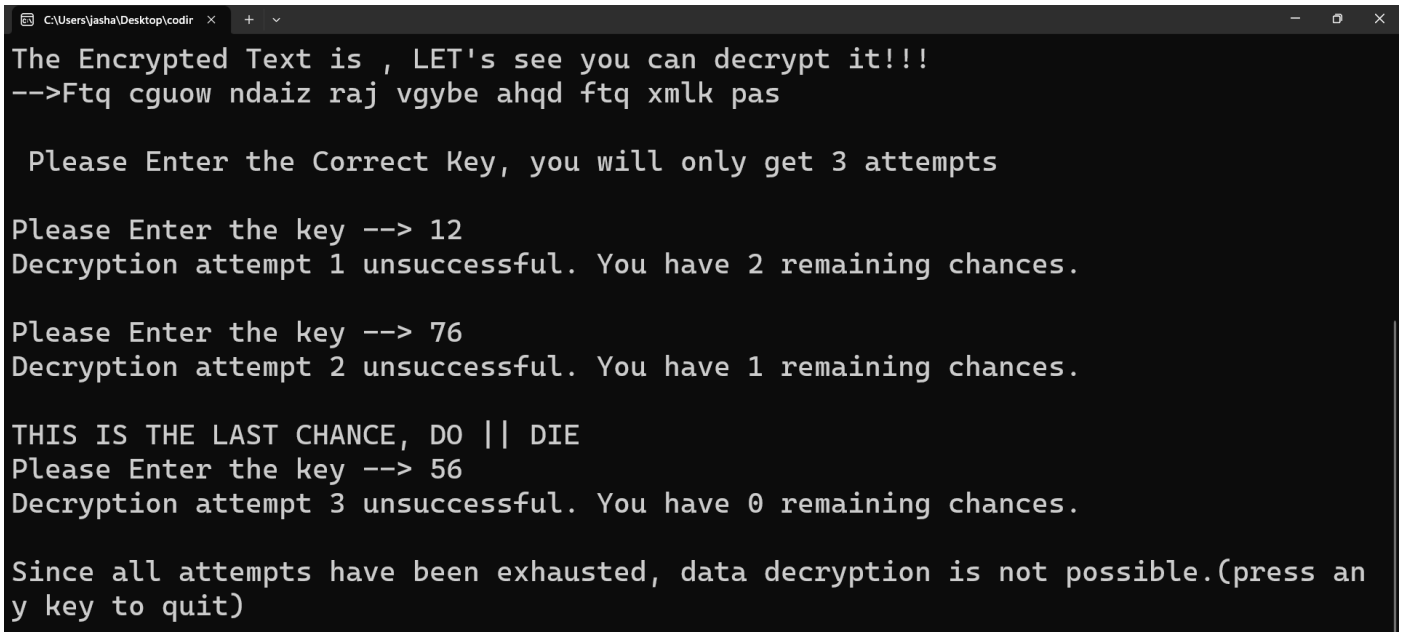




For Invalid input

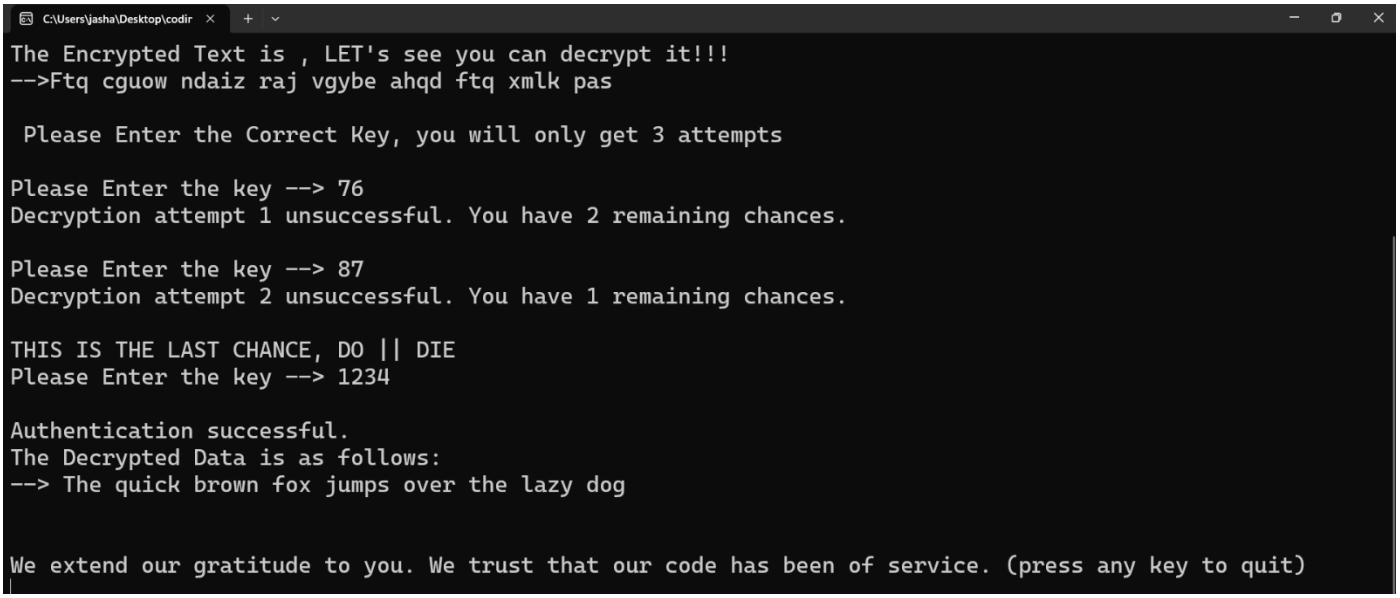


3.) Given the scenario where you opt to proceed with the code, the system will grant you three opportunities to input the accurate key. Should you successfully provide the correct key within these attempts, the decrypted text will be revealed. Conversely, if all three attempts yield incorrect keys, the data will persist in its encrypted state. This approach safeguards the data's confidentiality while allowing a limited number of attempts for key retrieval.



For Uncorrect Key

For Correct Key



Time complexity : O(n)

Space complexity: O(n)