

## Design (Algorithm) for Homework 3

- Comment with my information and description at top of code.
- Create void function to Encrypt the user given text file.
  - Define variables.
  - Ask for user files that are being written to.
  - Check to see if opening file failed.
  - Ask for user given key.
  - While.
    - Test for end of file.
    - Check for upper and lowercase letters.
    - Encryption formula.
    - Item count.
    - Put and get member functions.
  - Close opened files.
- Create void function to Decrypt the user given text file.
  - Define variables.
  - Ask for user files that are being written to.
  - Check to see if opening file failed.
  - Ask for user given key.
  - While.
    - Test for end of file.
    - Check for upper and lowercase letters.
    - Decryption formula.
    - Item count.
    - Put and get member functions.
  - Close opened files.
- Create void function for my information.
  - Cout my information.

- Create int function for User Choice.
  - Declare variable.
  - Ask for user input.
  - While.
    - Check for proper user input.
  - Return user input.
- Create main function.
  - Declare variables.
  - Call display function.
  - Call user choice function.
  - User input to decide which function to use.
  - Do.
    - Encryption.
    - Decryption.
    - Exit.
  - Return.
- END PROGRAM.