# Objective

Practice the cumulative sum and char data type

# Problem

You want to create an app to encode the text messages that you send to your friends. Once your friend gets the message, the message should be decoded so that your friend understands it. To implement this app a special algorithm will be used. In this algorithm each letter will be rotated by a given amount. For example, if you rotate the letter ‘A’ by 3 you should get ‘D’. rotate ‘B’ by 3 you should get ‘E’. Toward the end of the alphabet you wrap around, if example rotate ‘X’ by 3 you should get ‘A’. rotate ‘Y’ by 3 you should get ’B’. To understand the program, open the output file and closely look at the input and the output of the program

# Methods

* **Main method: refer to the shell**
* **Menu method: refer to the shell**
* **Decode method: refer to the shell**
* Encode method refer to the shell

# Requirements

* Must provide all the methods
* Must encode and decode correctly
* Must follow the naming rules, and conventions
* Must follow the indentation rules
* Must generate the correct output.
* Must run your code with the given sample output.
* Any code submitted from the previous semesters will get zero points
* You are not allowed to change the signature of any methods. Doing so will cause losing points for the method.
* Self-grade with explanation otherwise no points will be given for the self-grade

# Sample output: Refer to the provided file