GSET - Programming with Mr. Hill - Summer 2023

Repetition - Tutorial 7 - The Caeser Cipher

Overview:

We are going to write a Python program to encrypt and decrypt a secret message.

System Requirements:

- Computer: A computer is required to complete this tutorial. Any OS should work.
- Python: You can an online Python compiler (Trinket Python3) or a Pyhton compiler of your choice.

Problem Statement:

Mode 1: Encryption

- Given: A readable secret message to encrypt with the Caeser Cipher and the cipher key
- Find: The encrypted message

Mode 2: Decryption

- Given: An encrypted secret message to decrypt with the Caeser Cipher and the cipher key
- Find: The indecrypted message in a readable format

Program Minimum Requirements:

The program should accomplish the following tasks.

Mode 1: Encryption

- The readable message should be stored as an array of characters.
- Your program should print readable the message to the screen in character format.
- Your program should encrypt the message using the Ceaser Cipher (shift each letter in alphabet by the key)
- Your program should print the encrypted message to the screen.

Mode 2: Encryption

- The encrypted message name should be stored as an array of characters.
- Your program should print the encrypted message to the screen in character format.
- Your program should decrypt the message using the Ceaser Cipher (shift each letter back in alphabet by the key)
- Your program should print the decrypted message to the screen.

Part 3 - Testing:

- 1. Complete the C++ code to the solve the problem described.
- 2. Test your code with different inputs. Is the answer correct? How do you know? Are there certain inputs that do not work?
- 3. Save your code with the download button or use copy and paste. You can view and edit the code in any text editor. Also, save a copy of the program output for your tutorial summary.

Solution Code:

Tutorial Summary:

Write a brief summary of what you accomplished and what you struggled with the most. Include the following items in the summary:

- a copy of the output of your program
- a description of what the program does and how to use it