

Assignment 1: Due Date: Sunday, March. 28, 2020

1 Overview

In your preferred programming language, write a program that will ask the user to enter a plaintext of any length and a key-value (positive integer), then it will print out on the screen the encoded ciphertext using the a modified Caesar Cipher Algorithm. Your program should be able to decrypt the ciphertext and obtain the original plain text too.

2 What you need to do

Write a program that will ask the user to enter any plaintext. Then, it will encrypt/decrypt that string using Caesar Cipher and prints out the results on the screen. In this time, the user will not be asked to enter any keys, encryption should be based on the following conditions:

- Replace the characters at the odd positions by the previous character in the alphabet.
- Replace the characters at the even positions by the next 3_{rd} character in the alphabet.

3 What to Submit

You should submit your code and a technical report, which explains your experience developing of the program. Your report should document why you chose the programming language that you selected, and documents your algorithm including your functions and any calculations that you may have. It also should include sample screenshots for your runs including sample inputs/outputs.

Please bundle your source code along with your report in a one compressed file (*.zip or *.rar) and uploaded it into your account on the e-learning system.