An-Najah National University	An-Najah N. University Faculty of Engineering & Information Technology Department of Computer Science Computer Organization & Assembly Language Course Project Deadline: 22-Dec-2021 Instructor: Dr. Ahmed Awad	

Problem

Consider an input text entered line by line by the user. The objective of this problem is to do a simple encryption for this text using Caesar algorithm with some additional features.

Requirements:

You are required to write an Assembly program that reads an input text from the user and then performs the following:

1. Encrypt the text using Caesar algorithm with 3-letter shifting amount. This is illustrated as following:

```
plain:  a b c d e f g h i j k l m n o p q r s t u v w x y z
cipher: D E F G H I J K L M N O P Q R S T U V W X Y Z A B C
```

2. Ask the user to enter two numbers. Each number represents a row number in the text.
3. Swap the two rows whose numbers have been provided by the user in (2).
4. Swap the two columns whose numbers have been provided by the user in (2).
5. Print the final ciphertext in the center of the screen.

Submission

1. Submit your code via Moodle within the deadline stated above.
2. You can work as teams in this project. **Each team is up to 3 students**.
3. After submission, you are required to discuss your project.
4. This project **weighs 20%** from your final mark in this course.
5. Any submission without discussing your work will not be evaluated.
6. Any cheating will cause you to get zero in the project according to university regulations.

Good Luck