

CS2610: Computer Organization and Architecture

Lab

Lab Assignment - 2

18-02-2021

1 Problem - Encryption

Write an assembly language program to encrypt digits as shown below:

Input digit	0	1	2	3	4	5	6	7	8	9
Encrypted digit	5	6	7	8	9	0	1	2	3	4

Your program should accept a string consisting of digit and non-digit characters. The encrypted string should be displayed in which only the digits are affected. Then the user should be queried whether he or she wants to terminate the program. If the response is either y or Y you should terminate the program; otherwise, you should request another input string from the keyboard. You can assume that the input will not exceed 20 characters.

Sample input and output

C5o2A3L4a1B

C0o7A8L9a6B

2 Submission Guidelines

- There will be points for the readability of the code. Write the code with proper comments wherever necessary and maintain proper indentation.
- Name the program with your roll_no. Ex: If your roll_no is CS19B001, your file name should be CS19B001.asm. If there are multiple files, use CS19B001_1.asm, CS19B001_2.asm etc..
- Place all the required files in a folder and compress the folder using zip compression. Name your folder in the following format. If your roll_no is CS19B001, name it as CS19B001_A\$.zip, where '\$' denotes the assignment number.