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COMSATS University Islamabad (Lahore Campus)

Lab-Terminal

Spring 2024

| Course Title: | computer organization and assembly language | Course Code: | CSC325 | Credit Hours: | 3(2,1) |
|--------------------------------------|---|-----------------|--------|---------------|--------|
| Course Instructor: | MUNAWAR UL ZAMAN | Programme Name: | BCS | | |
| Due Date: | 31 -5- 2024 | Maximum Marks: | | 25 | |
| Important Instructions / Guidelines: | | | | | |

Lab-Terminal Examination

Question No 1. Marks: 15

CLO: <6>; Bloom Taxonomy Level: < creating>

Write a program that has two strings STRING1 and STRING2, a nonnegative decimal integer N, 0 <= N <= 40, inserts STRINGI into STRING2 at position N bytes after the beginning of STRING2, and displays the resulting string. You may assume that N <= length of STRING2 and that the length of each string is less than 40

Algorithm

Write a procedure INSERT that will insert a string STRING1 into a string STRING2 at a specified point.

Input

- SI offset address of STRING 1
- DI offset address of STRING2
- BX length of STRING 1
- CX length of STRING2
- AX offset address at which to insert STRING 1

Output

- DI offset address of new string
- BX length of new string

The procedure may assume that neither string has zero length, and that the address in AX is within String2.

Question No 2. Marks: 10

CLO: <5>; Bloom Taxonomy Level: < Applying>

Your IBM personal computer is capable of handling characters, all these characters can be used within your computer system. By using emu8086, write a program to display the entire- IBM character set. And Write a procedure capital, small and numbers to display capital, small and numbers on the screen.