National University of Computer and Emerging Sciences



Laboratory Manual

for

Computer Organization and Assembly Language Programming

(EL 213)

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| Section | B |
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## Objectives

After performing this lab, students shall be able to:

* Apply string instructions to effectively solve problems.
* Visualize use of string instructions on video memory.

**Exercise 1 (SCAS):** Write a program that takes two strings and sets DX to 1 if both strings are equal and resets it otherwise:

**Sample 1:**

String 1: hello world

String 2: hello worlD

DX = 0

**Sample 2:**

String 1: hello world

String 2: hello world

DX = 1

**Exercise 2 (LODS, STOS):** Write a program that copies first 12 lines of AFD Introduction screen in last 12 lines.