# Laboratory 7

Title of the Laboratory Exercise: String manipulation

1. Introduction and Purpose of Experiment

Students will be able to perform all string manipulations in assembly language

1. Aim and Objectives

Aim

To develop assembly language program to perform all string operations like inserting a byte, deleting a byte and copying a string as a sub-string

Objectives

At the end of this lab, the student will be able to

* + Identify instructions for performing string manipulation
  + Use indexed addressing mode
  + Apply looping instructions in assembly language
  + Use data segment to represent arrays

1. Experimental Procedure

1. Write algorithm to solve the given problem

2. Translate the algorithm to assembly language code

3. Run the assembly code in GNU assembler

4. Create a laboratory report documenting the work

1. Questions

Develop an assembly language program to perform the following

1. Copy the contents of MSG1 to MSG2
2. Copy the contents of MSG1 to MSG3 in reverse order
3. Develop an assembly language program to compare two strings and print a message “Equal” if they are equal, “Not Equal” if they are not equal.
4. Calculations/Computations/Algorithms
5. Presentation of Results

1. Analysis and Discussions
2. Conclusions

1. Comments

1. Limitations of Experiments

2. Limitations of Results

3. Learning happened

4. Recommendations

Signature and date Marks