# Laboratory 4

Title of the Laboratory Exercise: Controlling execution flow using conditional instructions

1. Introduction and Purpose of Experiment

Students will be able to perform control flow operations using conditional instructions

1. Aim and Objectives

Aim

To develop assembly language program to perform control flow operations using conditional instructions.

Objectives

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

* + Identify the appropriate assembly language instruction for the given conditional operations
  + Perform all conditional operations using assembly language instructions
  + Get familiar with assembly language program by developing simple programs

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. Print all even numbers in ‘n’ natural numbers
2. Print all odd numbers in ‘n’ natural numbers
3. Compute GCD for the given two natural numbers
4. Compute LCM for the given two natural numbers
5. Develop an assembly language program to generate the first n numbers in Fibonacci series.
6. Calculations/Computations/Algorithms
7. Presentation of Results
8. Analysis and Discussions
9. Conclusions
10. Comments

1. Limitations of Experiments

2. Limitations of Results

3. Learning happened

4. Recommendations

Signature and date Marks