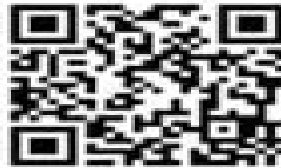


Nt1210 Lab



The objective of this lab is to be able to understand how the CPU functions work, as well as understanding machine and assembly language.

Results:

What I found out is that after doing the lab is that there are three cycles that the CPU goes through in order for the program to be executed. I was able to come up with small programs for 2a and 3b that will execute according to the instructions given in the lab, which is shown below.

Conclusions:

I thought this lab was really awesome because I was able to construct a machine language program in binary code, as well as being able to put together a short assembly language program. What I have implemented from this lab is that the [Central Processing Unit](#) (CPU) is able to fetch, decode, and execute ... Show more content on [Helpwriting.net](#) ...

1 – Explain the cycles that CPU goes through in the animation of Lecture 1:

There are three cycles that the CPU goes through in the animation of Lecture 1:

Fetch Cycle: CPU reads an instruction from the memory

Decode Cycle: CPU breaks the patterns into two parts (first three bits are place in the OPR, while the last 5 bits are place in the ADDR)

Execute Cycle: CPU performs the instructions

IV. 2.a – Write the machine language program (binary code).

10010100

00010101

00010110

00010111

00011000

10111001

11100000

IV. 2.b – Write the assembly language program.

LOAD 20 //Loads the present value located at address 20 for A

ADD 21 //Adds the content at address 21 to A

ADD 22 //Adds the content at address 22 to A

ADD 23 //Adds the content at address 23 to A

Nt1210 Lab Manual Answers

Rosina Ehmman



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