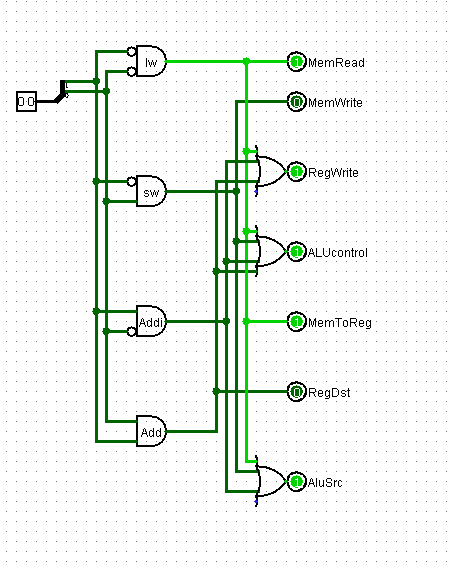
# COMP30080 – Assignment 5

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## Part 1:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Operation | MemRead | MemWrite | RegWrite | ALUControl | MemToReg | RegDst | ALUSRC |
| Lw 00 | 1 | 0 | 1 | 01 | 1 | 0 | 1 |
| Sw 01 | 0 | 1 | 0 | 01 | 0 | 0 | 1 |
| Add 11 | 0 | 0 | 1 | 01 | 0 | 1 | 0 |
| Addi 10 | 0 | 0 | 1 | 01 | 0 | 0 | 1 |

Truth Table for the Control Unit of the Processor:

Control Circuit Implementation (representation of Truth Table):  


## Functional units from previous assignment integrated into single functional processor:

## Part 2:

Yet to be implemented