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January 31 2015
COMP 273 Assignment 1

3.

A

// RI stopping point for while loop;

RI = 0010 0110 0100₂;

//RII address of 8 bit output slot.

RII = 0000 0000 0000 1111₂;

// Address register stores the address 200₁₆

AR = 0010 0000 0000₂;

//While less than 100 address have been loaded loop

while (AR<RI){

//Takes data from RAM are address AR

LOAD (DR,AR)

//Transfer data from DR to RAM slot which leads to machine.

SAVE (DR, RII)

// Increments address

AR++;

}

B.

The Load command will send the first Byte of data at address 0010 0000 0000₂ into the DR via the read method. Then when the Save command will send the data from the DR, to address 0000 0000 0000 1111₂ via the write method. This is the path the data bytes take, assuming that the DR is not in the CPU.