

### Step 3

CEDAR Logic Simulator - C:\Users\malia\OneDrive\Cedar projects\challenge sheet 4\Q1.cdl

File Edit View Help

1 - Basic Gates  
2 - Invert & Connect  
3 - Input and Output  
4 - Decorations  
5 - MUX and Decoder  
6 - Add & Compare  
7 - Flip Flops  
8 - Registers  
9 - RAM and ROM  
10 - Chips

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Z80 Info

A = 54	S = 0	A' = XX	S' = 0
B = XX	Z = 0	B' = XX	Z' = 0
C = XX	H = 1	C' = XX	H' = 0
D = XX	P/V = 0	D' = XX	P/V' = 0
E = XX	N = 0	E' = XX	N' = 0
H = XX	C = 0	H' = XX	C' = 0
L = XX		L' = XX	
IX = XXXX			
IY = XXXX			

Step By:

PC = 0008  
SP = XXXX  
IM = Mode 0  
IFF = Disabled

Continuous  
Instruction  
T-State

Go Step  
Next Prev  
Reset

Current Instruction

op: LD (r),A,r:0xA(10)  
description: saved to a constant specified location in memory the value from the accumulator

☐ ZAD Mode off  
☐ ZAD Mode on  
☒ ZAD Mode smart

000000

Edit Registers... Close

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## Step 4

CEDAR Logic Simulator - C:\Users\malia\OneDrive\Cedar projects\challenge sheet 4\Q1.cdl

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1 - Basic Gates  
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Z80 Info

A = 54	S = 0	A' = XX	S' = 0
B = XX	Z = 0	B' = XX	Z' = 0
C = XX	H = 1	C' = XX	H' = 0
D = XX	P/V = 0	D' = XX	P/V' = 0
E = XX	N = 0	E' = XX	N' = 0
H = XX	C = 0	H' = XX	C' = 0
L = XX		L' = XX	
IX = XXXX			
IY = XXXX			

Step By:

PC = 0009  
SP = XXXX  
IM = Mode 0  
IFF = Disabled

Continuous  
Instruction  
T-State

Go Step  
Next Prev  
Reset

Current Instruction

op: HALT  
description: Stops the machine until it is reset or an interrupt is received

☐ ZAD Mode off  
☐ ZAD Mode on  
☒ ZAD Mode smart

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Edit Registers... Close

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