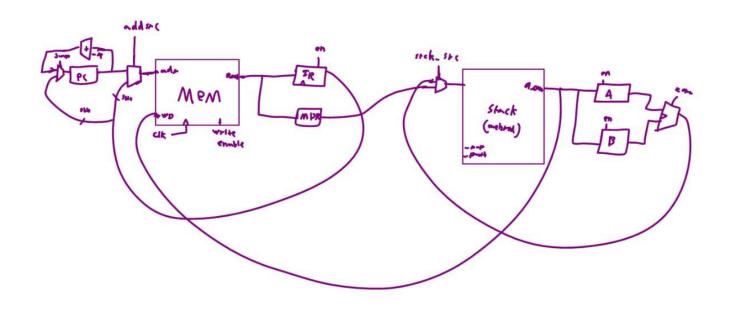
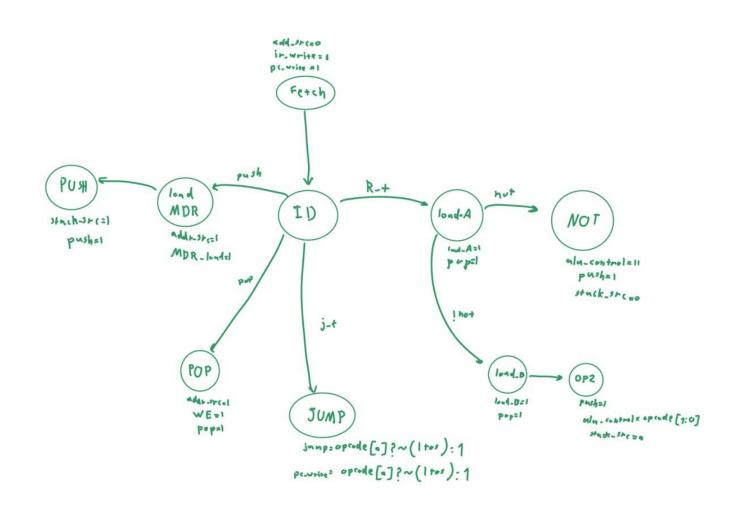
CA3 Report:

شايان ملكى : 810102515

سيد ماني حسيني : 810102552





Also the instruction handling is that we store each instruction in a line in the .mem file and since the instructions are only 8 bits they can be stored in a single byte so we move the pc 1 by 1 instead of 4 by 4.

Test program : we have put the numbers 1,2,3,4 from the element 25th to 28th then we store the result in the 29th element of the memory.

Here is the instructions:

PUSH 25 --> 10011001

PUSH 26 --> 10011010

ADD --> 0000000

PUSH 27 --> 10011011

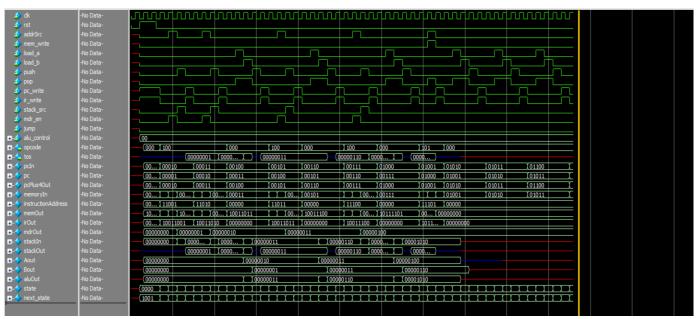
ADD --> 0000000

PUSH 28 --> 10011100

ADD --> 0000000

POP 29 --> 10111101

we can see the results here:



And here is the memory list:

_	
0	153
1	154
2	0
3	155
4	0
5	156
6	0
7	189
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	1
26	2
27	3
28	4
29	10
30	0
31	0

I have set the radix to decimal:

The numbers stored in the 25th to 28th are 1,2,3,4 as we previously mentiond.

the answer was supposed to be stored in the 29th element as we can see the number 10 is correctly stored in the 29th element of the mem.