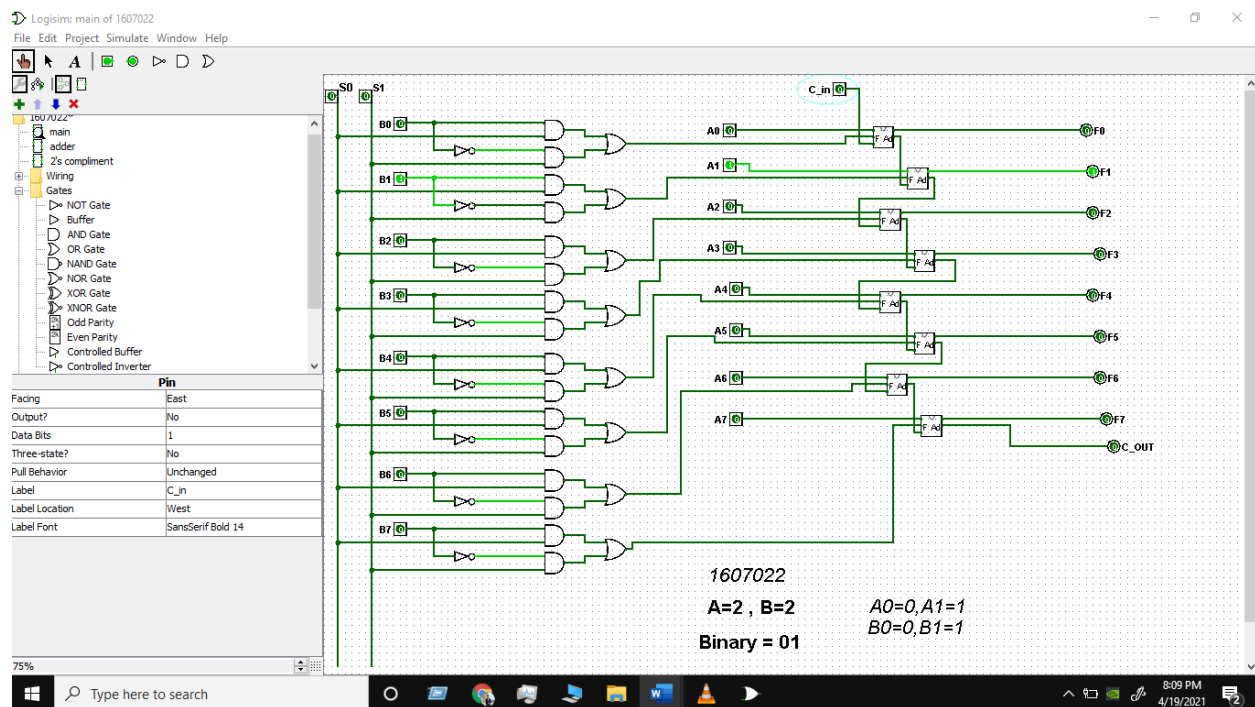


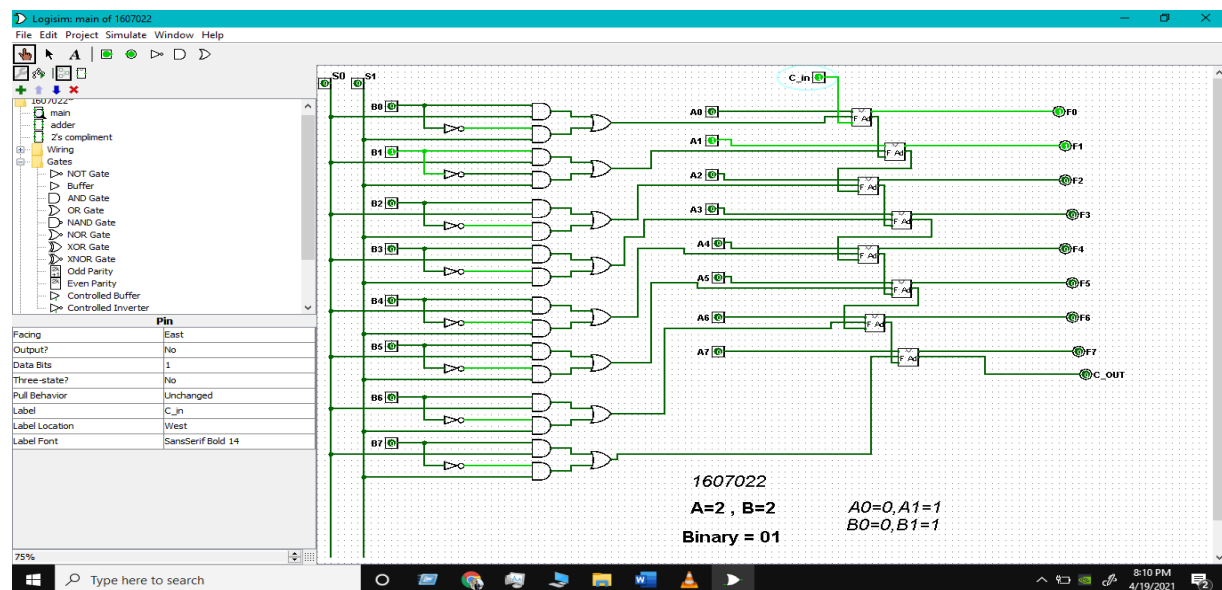
Results

My Roll is 22. So, in binary, "01" is equal to 2. So, I set $A_0 = 0$, and $A_1 = 1$ and it represent the digit '2'. The same goes for B. I set $B_0 = 0$ and $B_1 = 0$. And rest of the A and B are set to '0'. The screenshots of the results are given below:

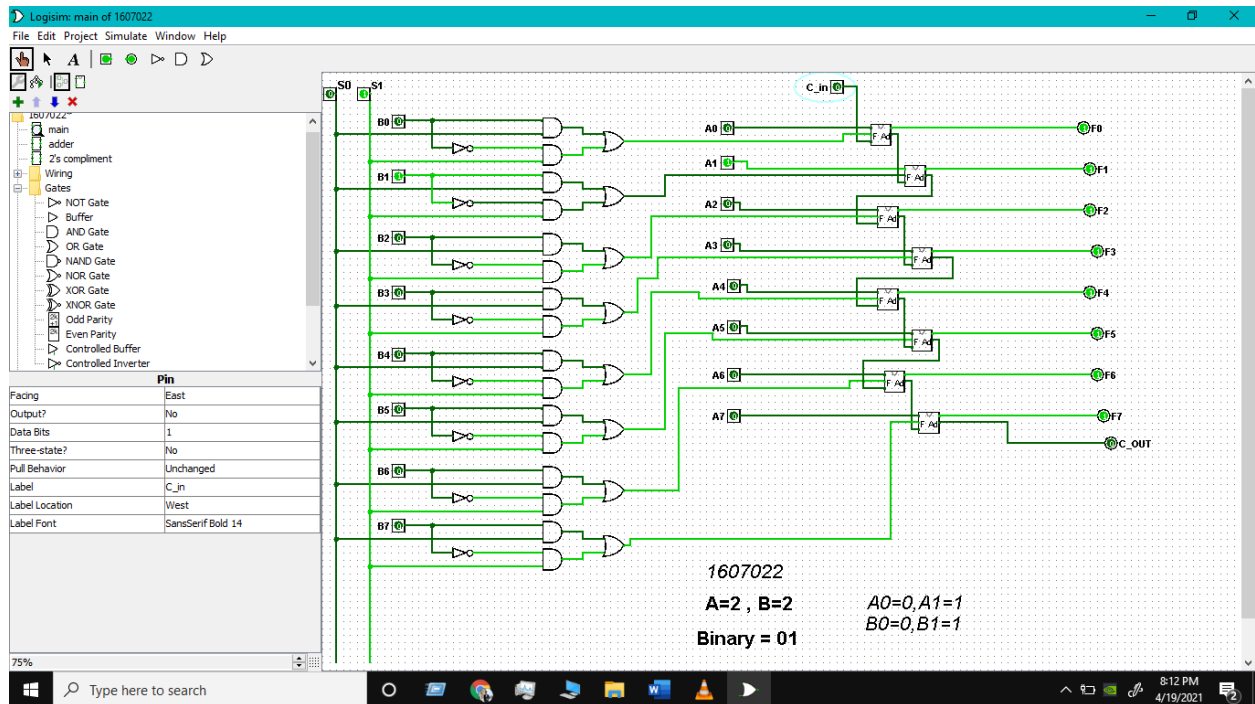
For $S_0=0, S_1=0, C_{IN}=0$:



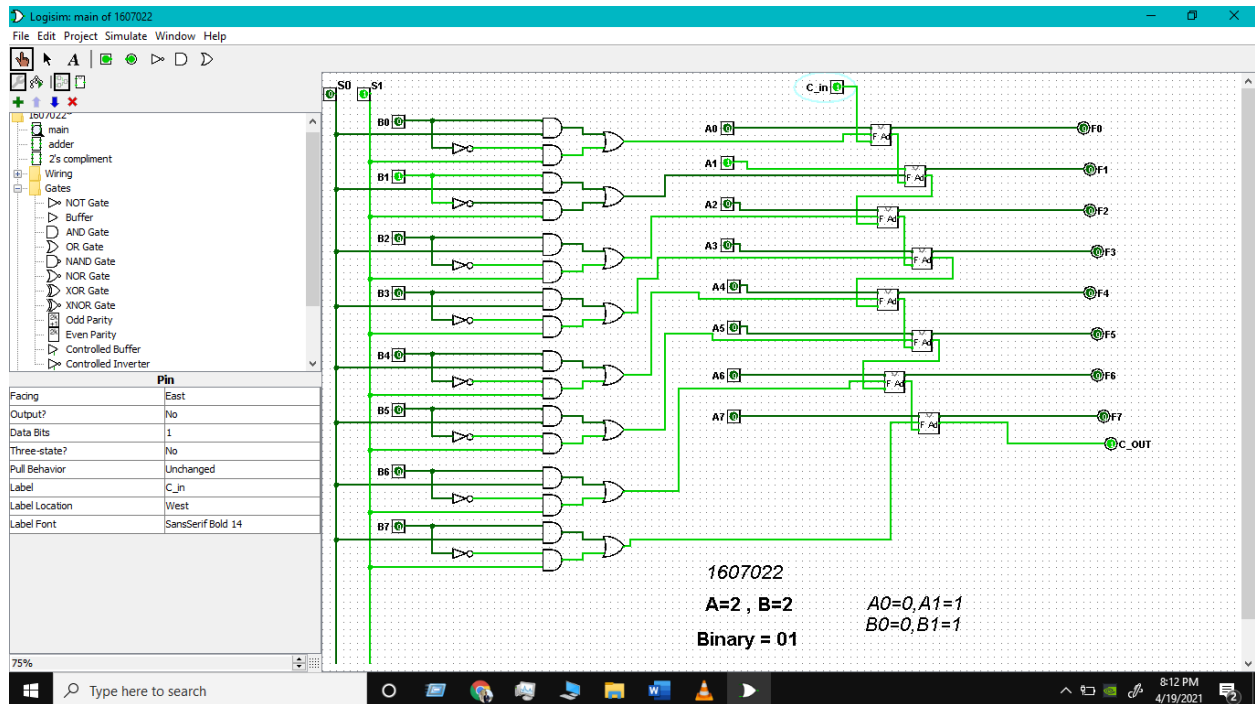
For $S_0=0, S_1=0, C_{IN}=1$:



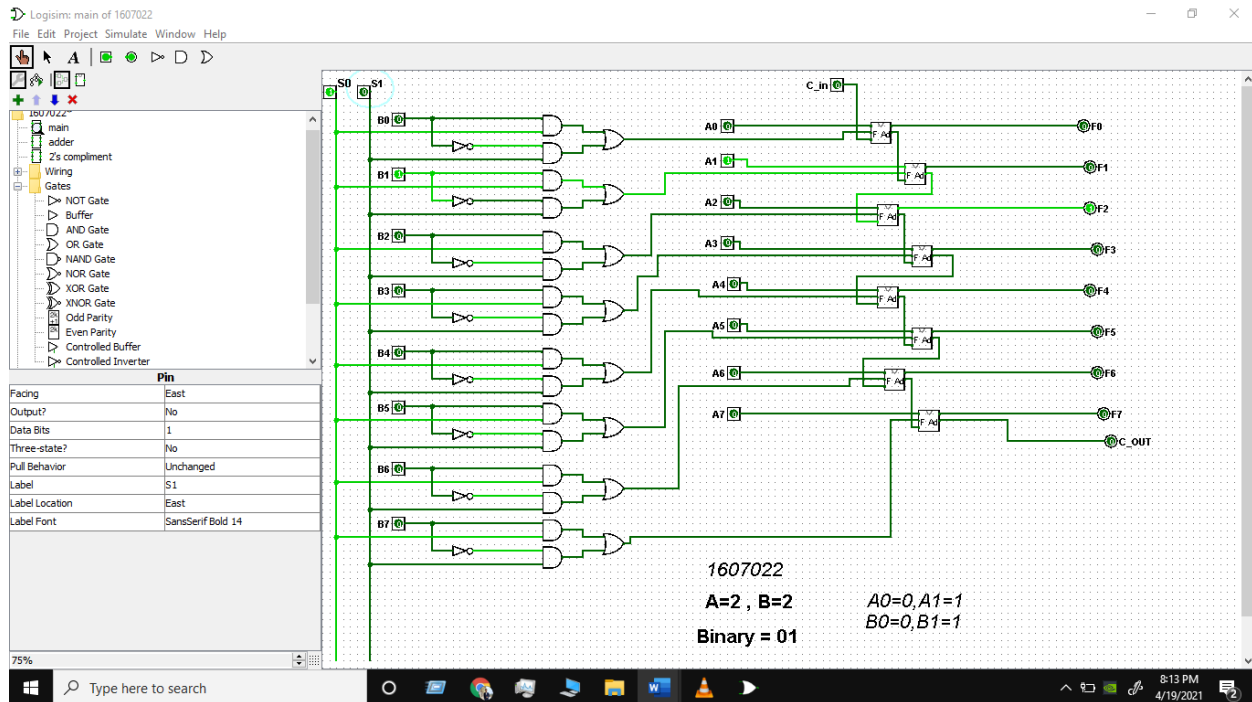
For $S_0=0, S_1=1, C_{IN}=0$:



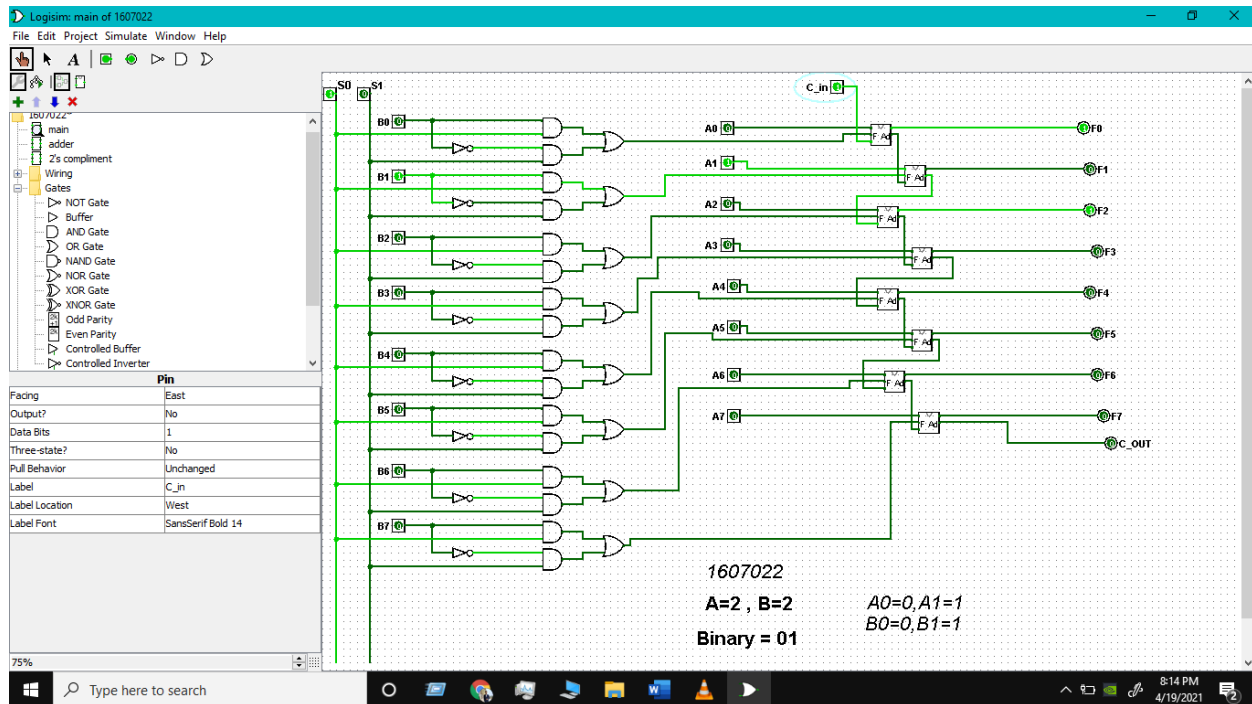
For $S_0=0, S_1=1, C_{IN}=1$:



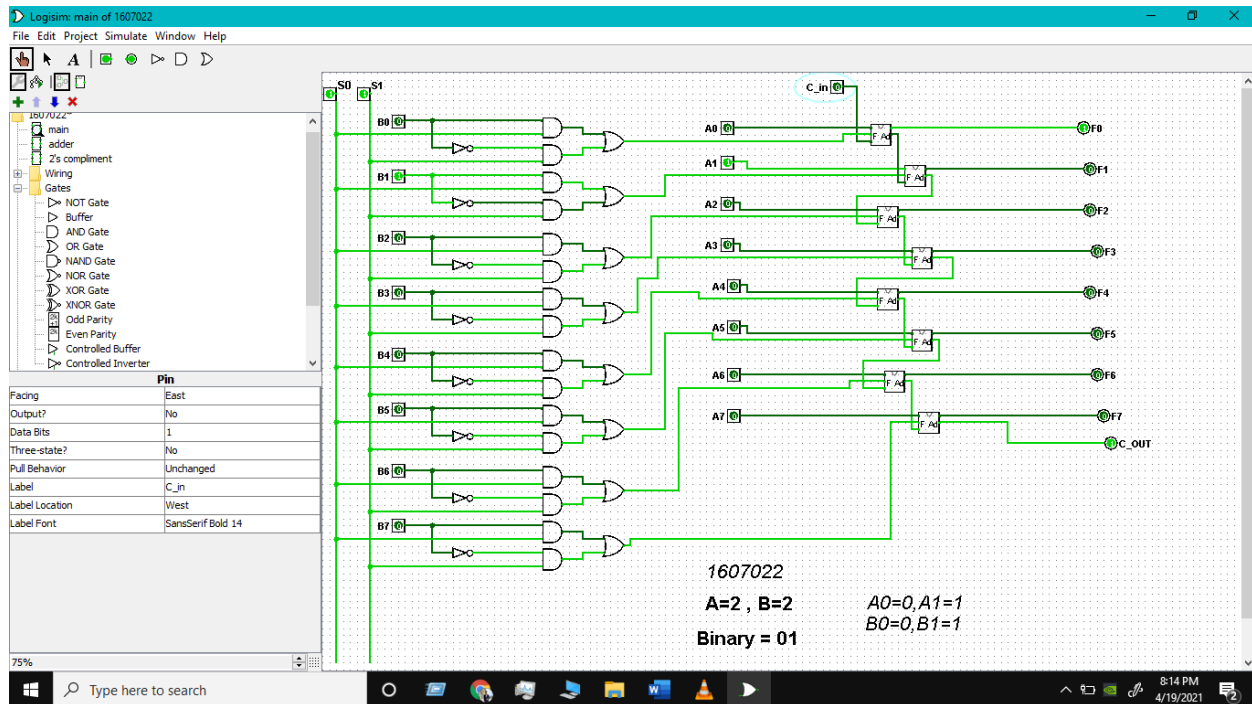
For $S_0=1, S_1=0, C_{IN}=0$:



For $S_0=1, S_1=0, C_{IN}=1$:



For $S_0=1, S_1=1, C_{IN}=0$:



For $S_0=1, S_1=1, C_{IN}=1$:

