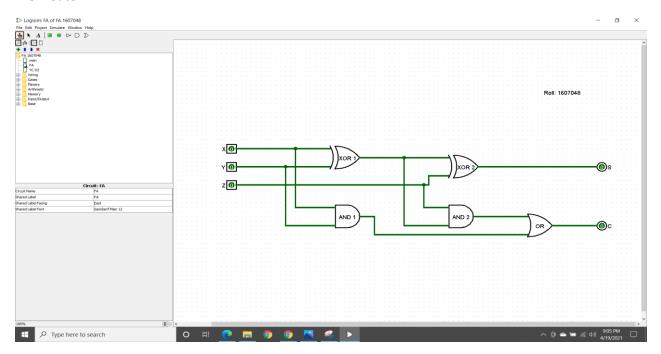
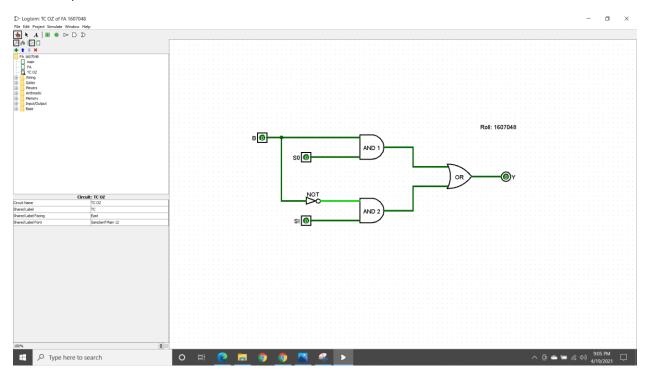
Name: Faisal Ahmed, Roll: 1607048

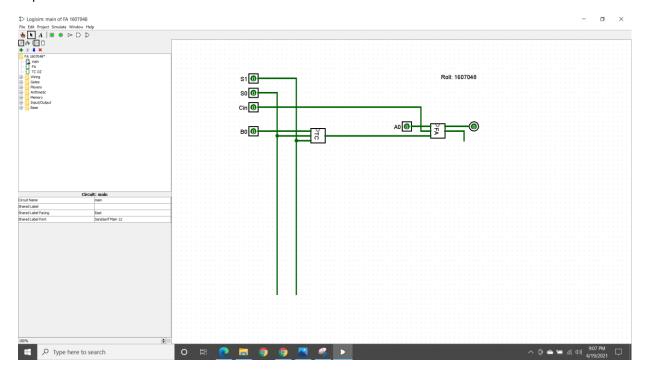
Circuit Design

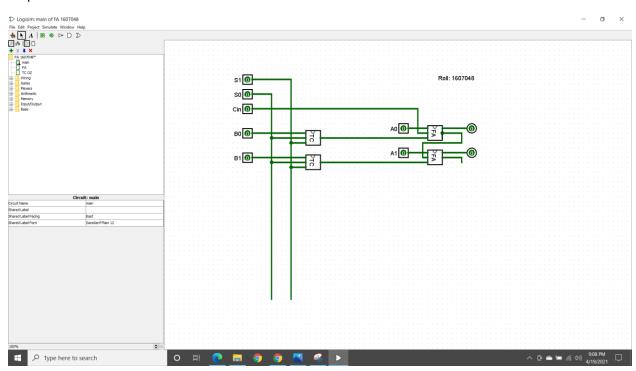
X-OR Gate

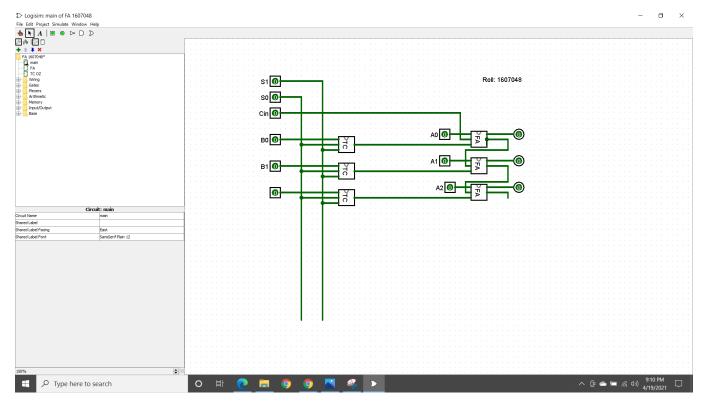


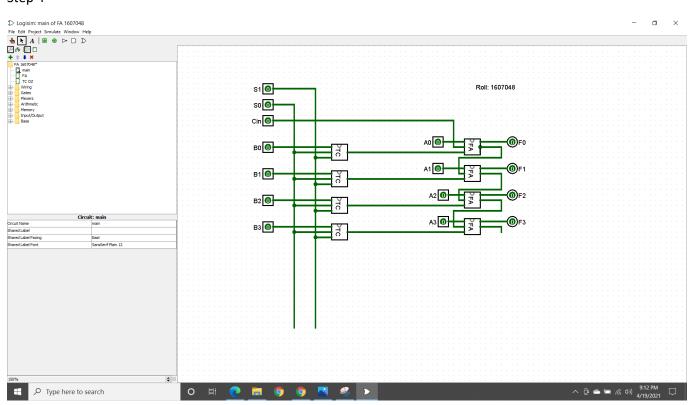
True Compliant or One Zero Circuit

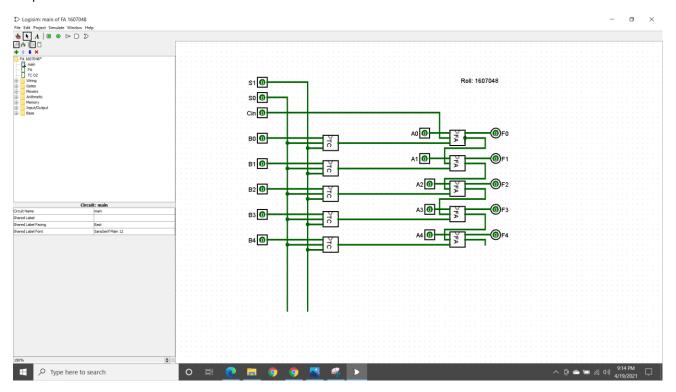


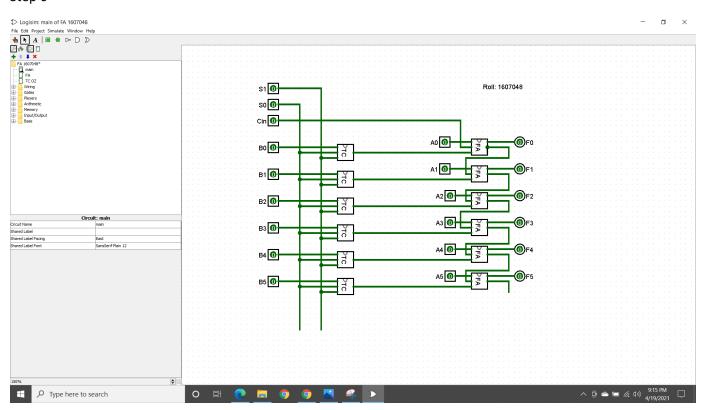


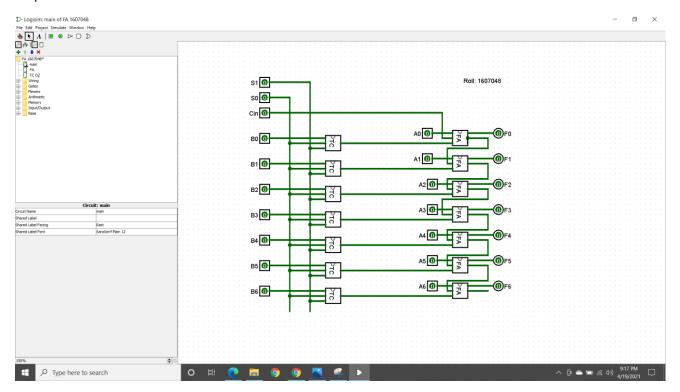


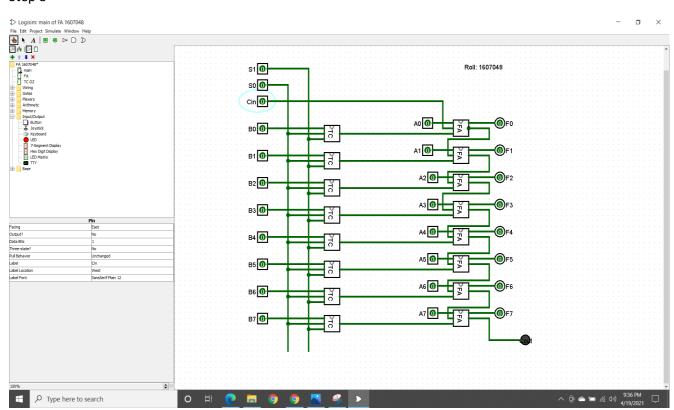






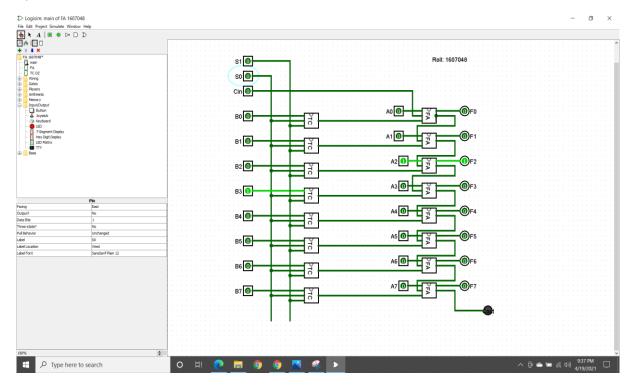




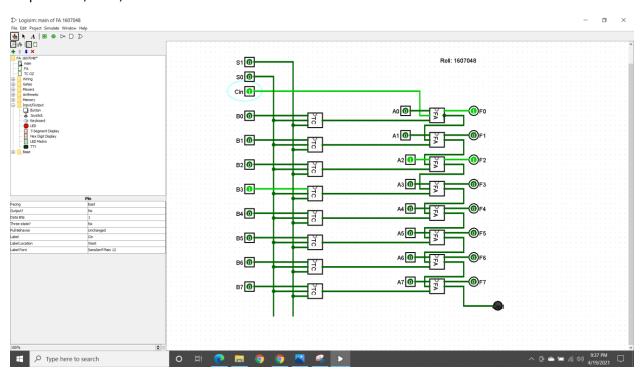


Output Analysis: A=4 and B=8

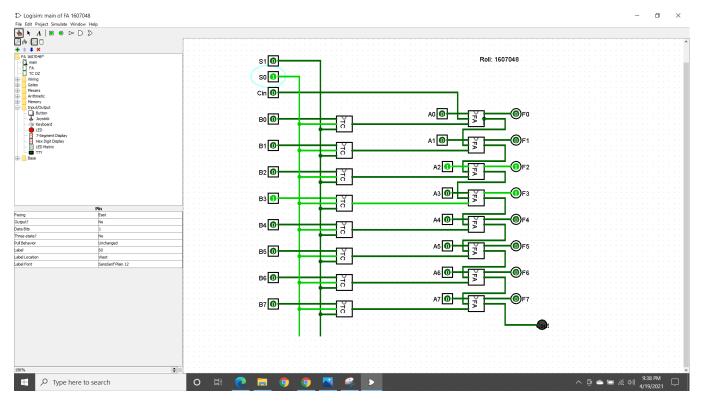
Step 0: S1=0, S0=0, Cin=0



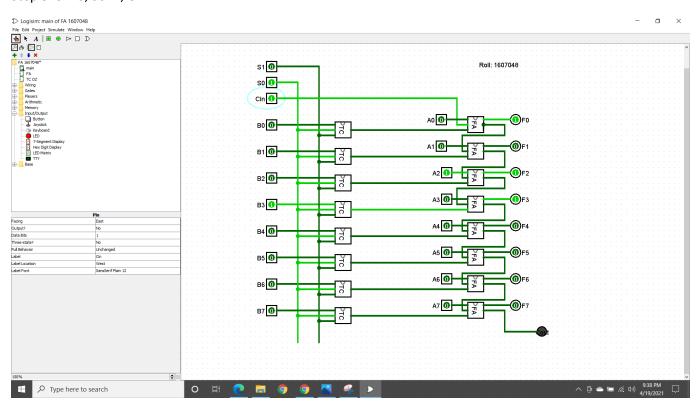
Step 1: S1=0, S0=0, Cin=1



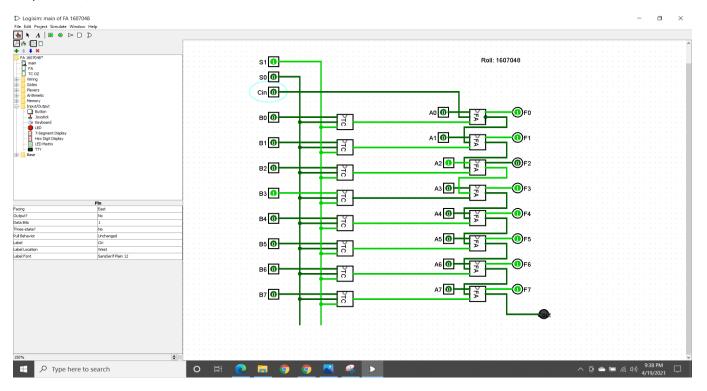
Step 2: S1=0, S0=1, Cin=0



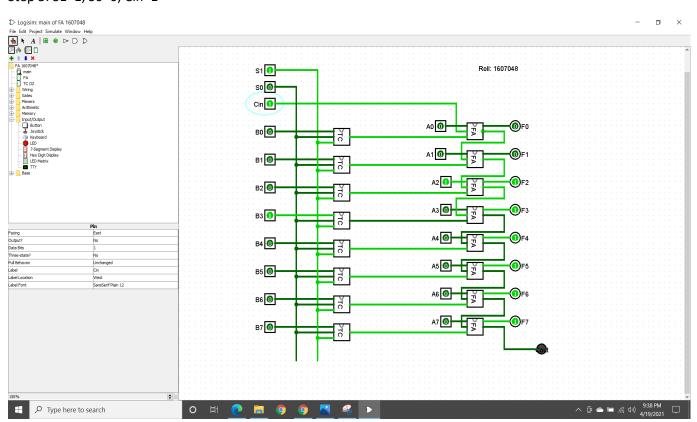
Step 3: S1=0, S0=1, Cin=1



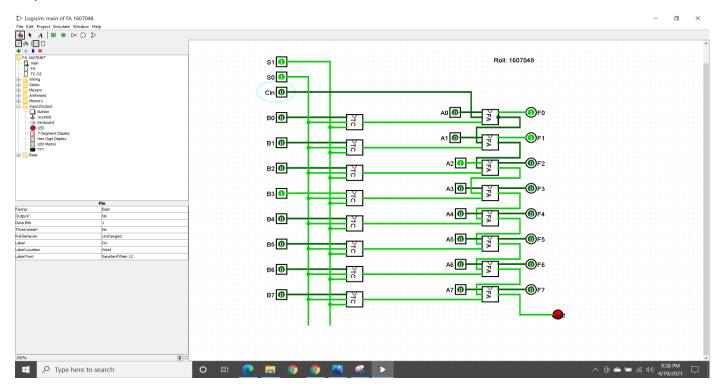
Step 4: S1=1, S0=0, Cin=0



Step 5: S1=1, S0=0, Cin=1



Step 6: S1=1, S0=1, Cin=0



Step 7: S1=1, S0=1, Cin=1

