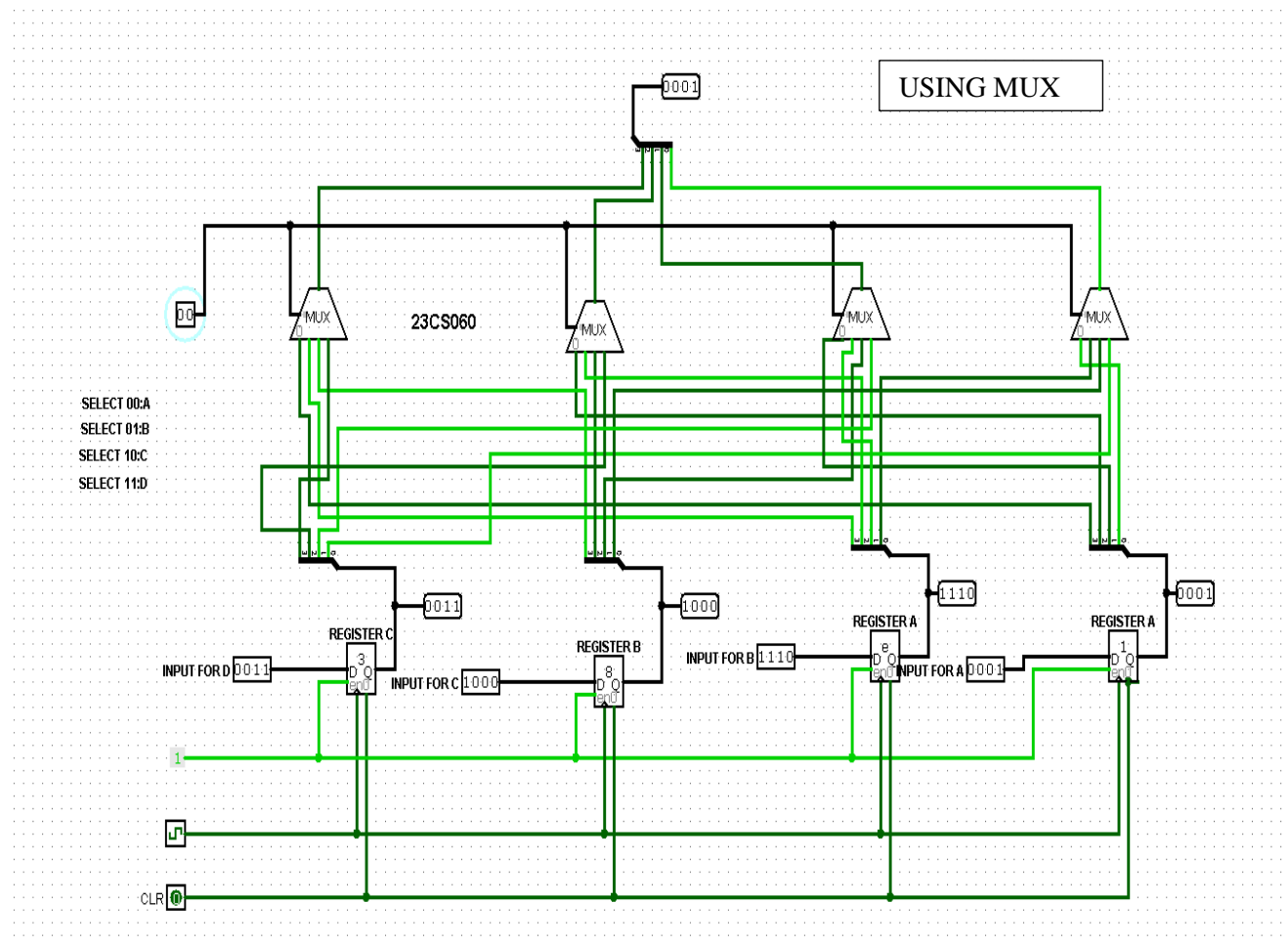


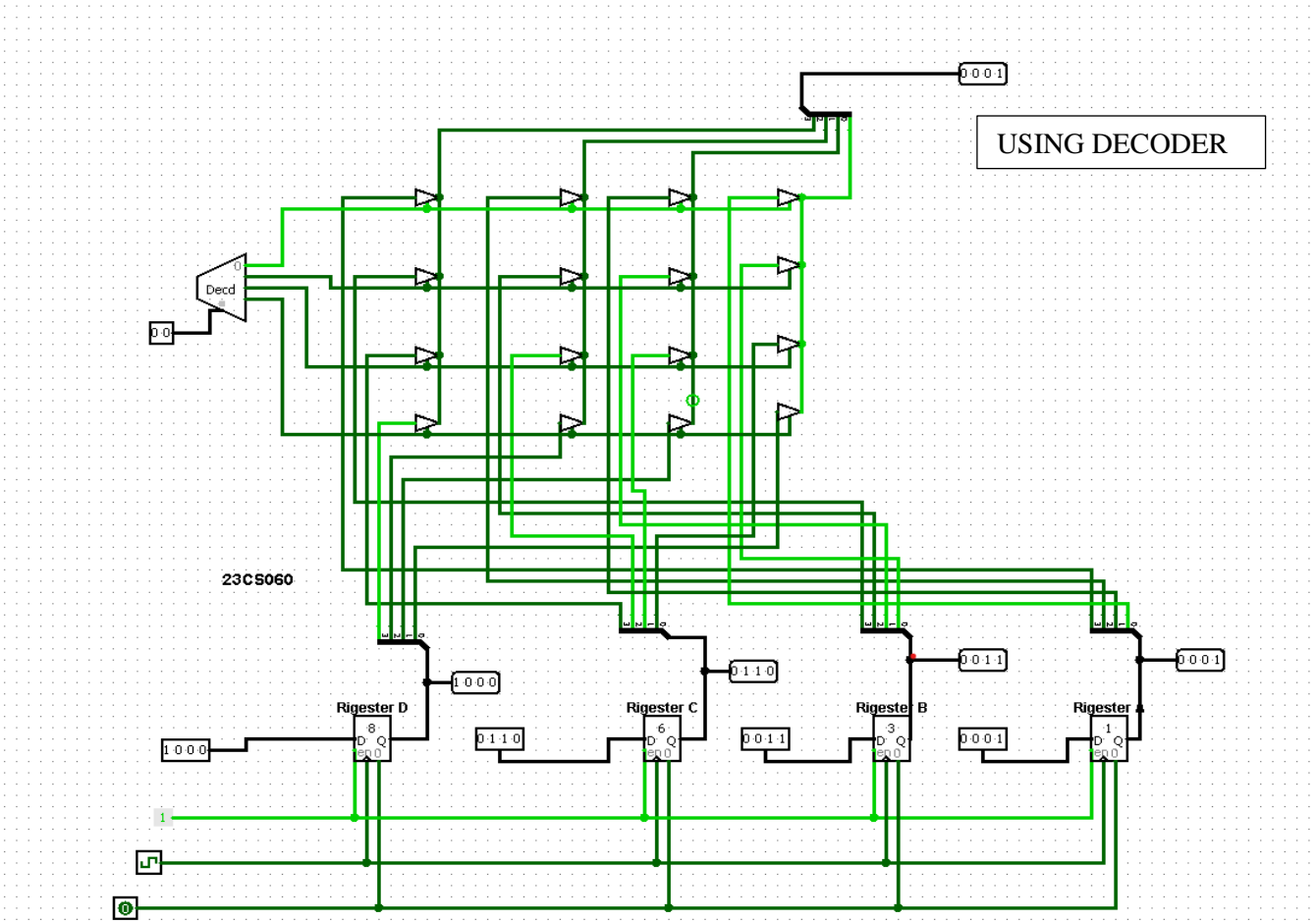
Date:

EXPERIMENT NO. 3

AIM: Implement a 4-bit common bus system to interface four 4-bit registers with a common bus using i. Multiplexer and ii. Decoder and tristate buffers.

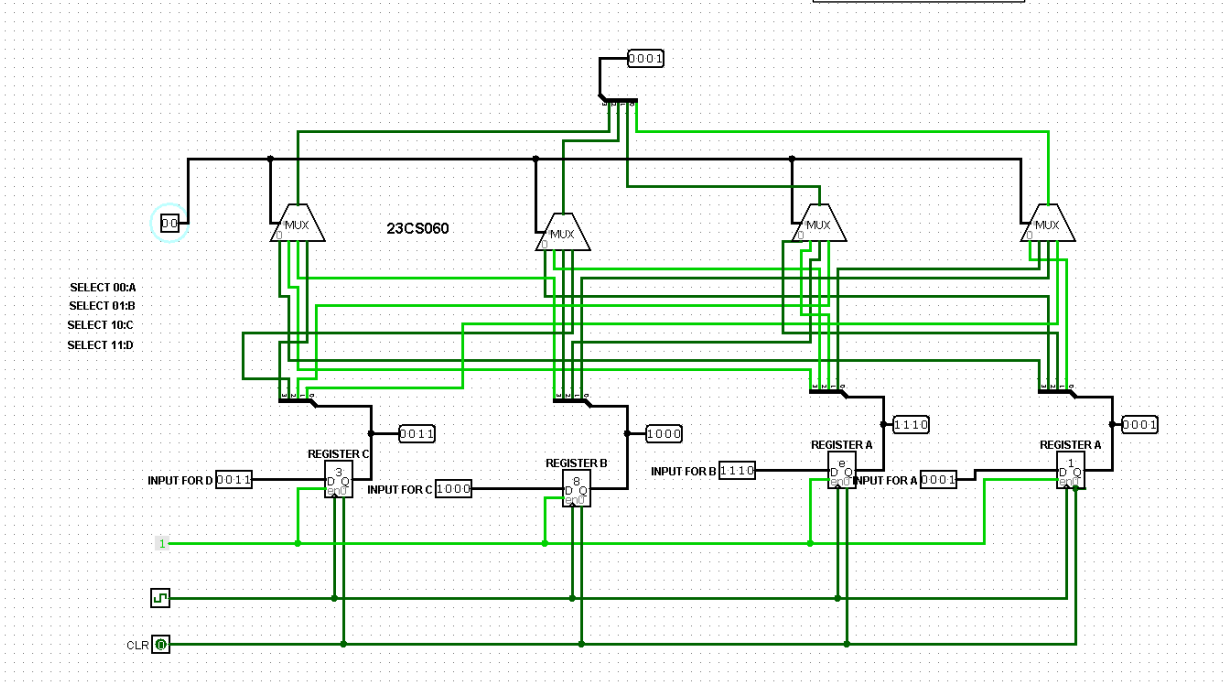
CIRCUITS:

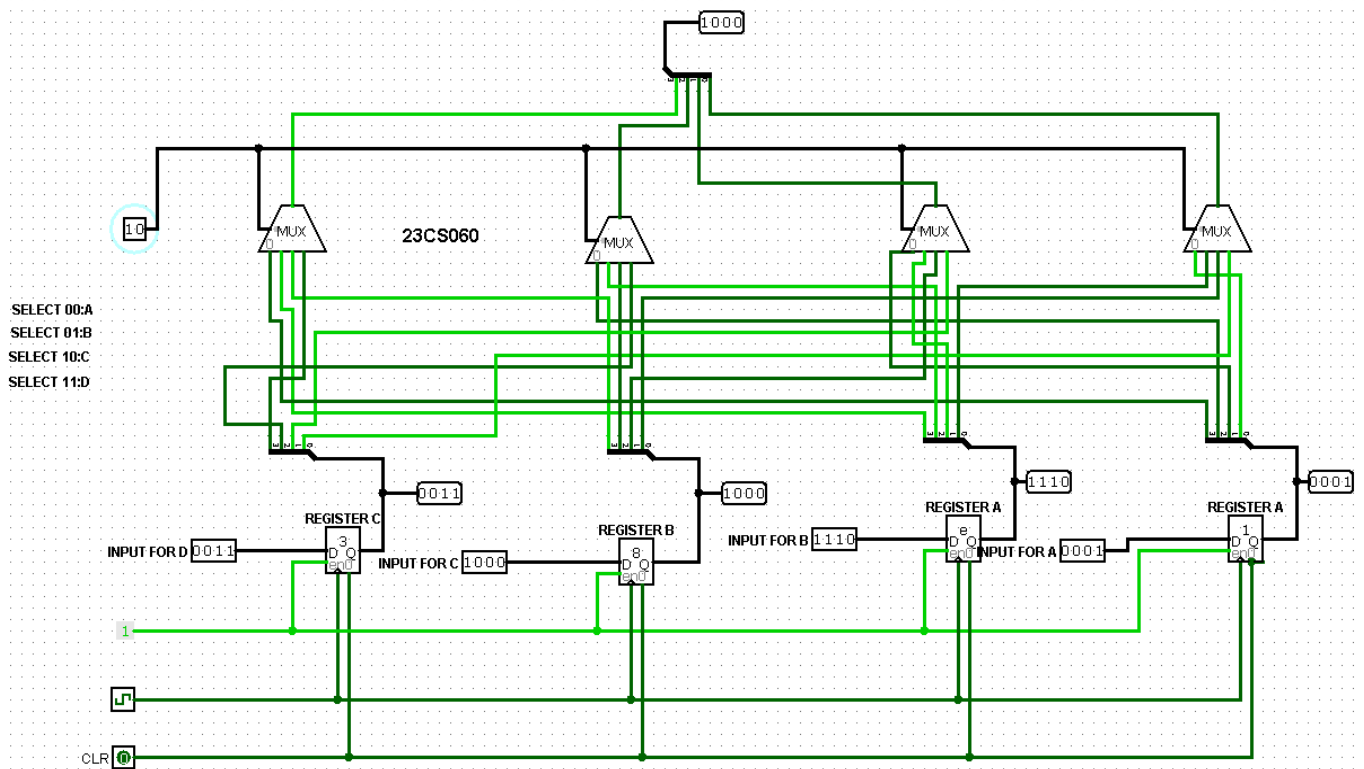
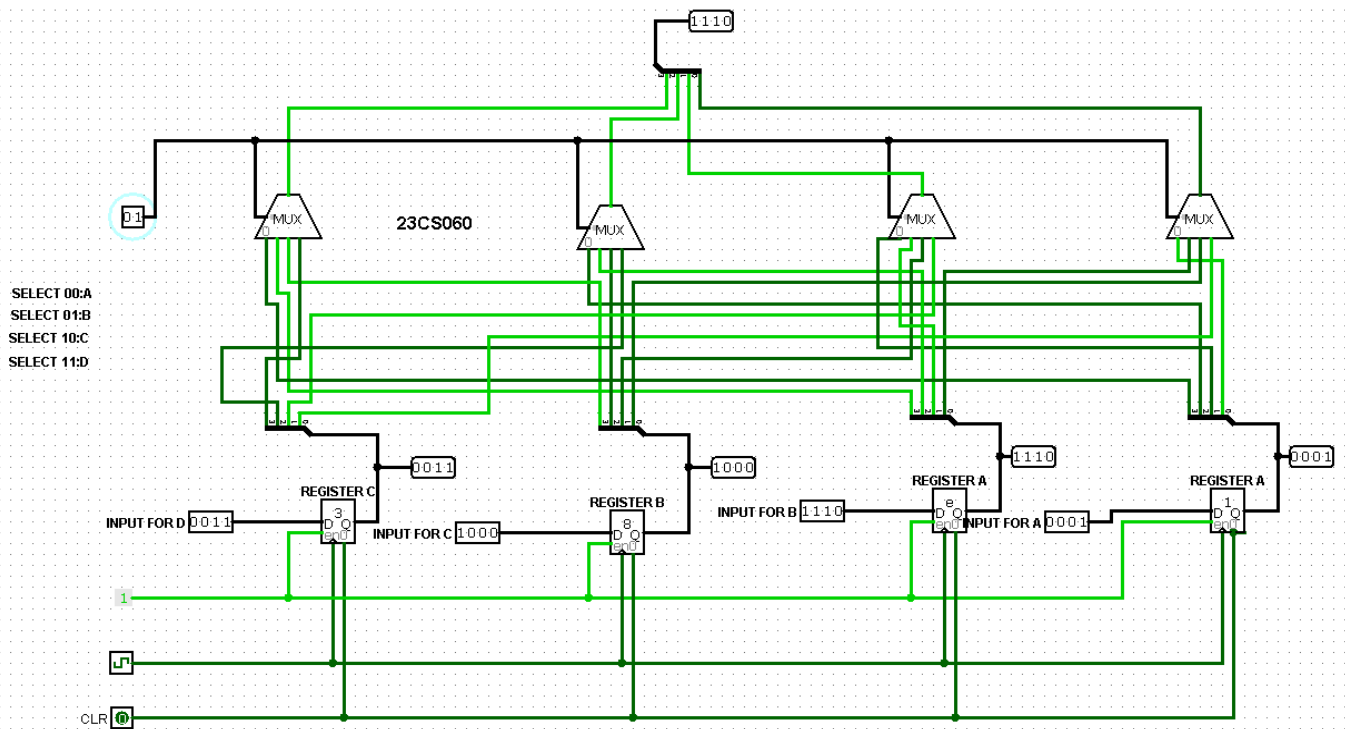


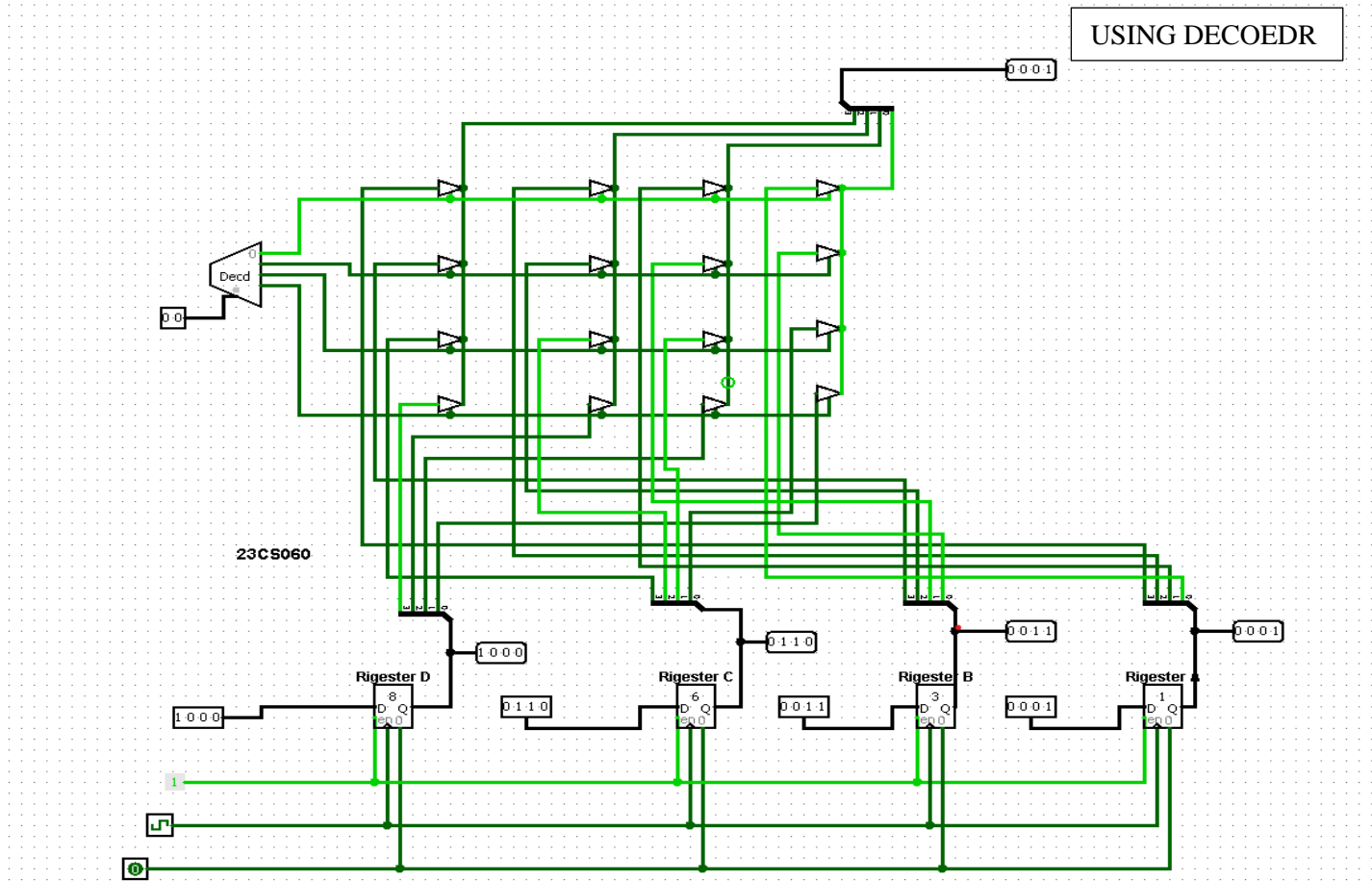
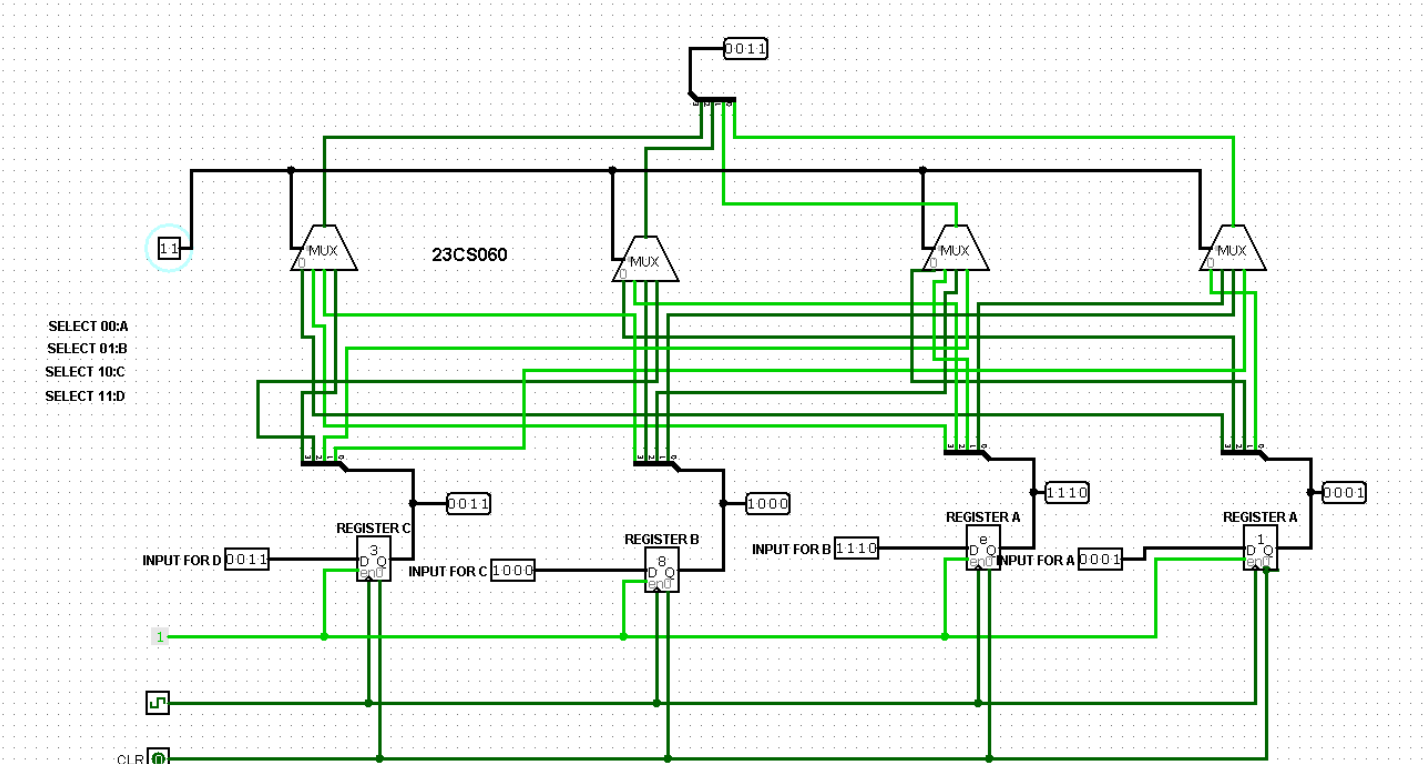


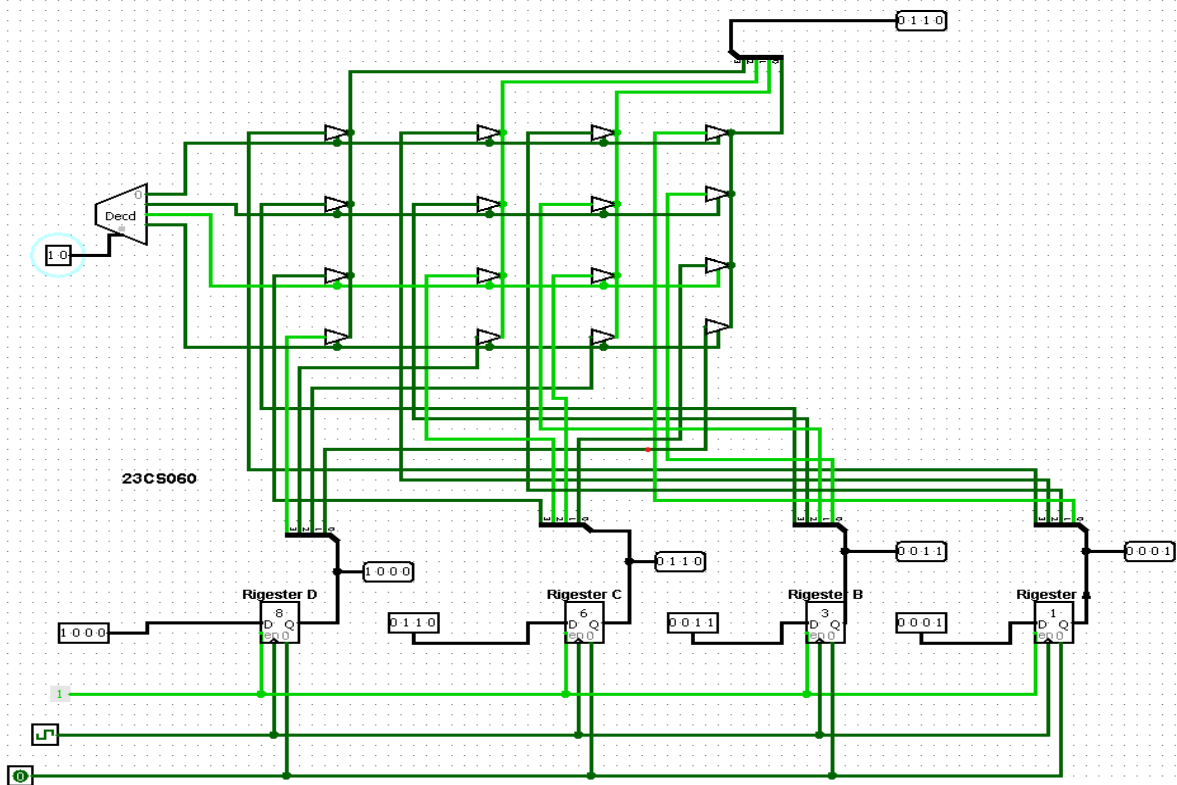
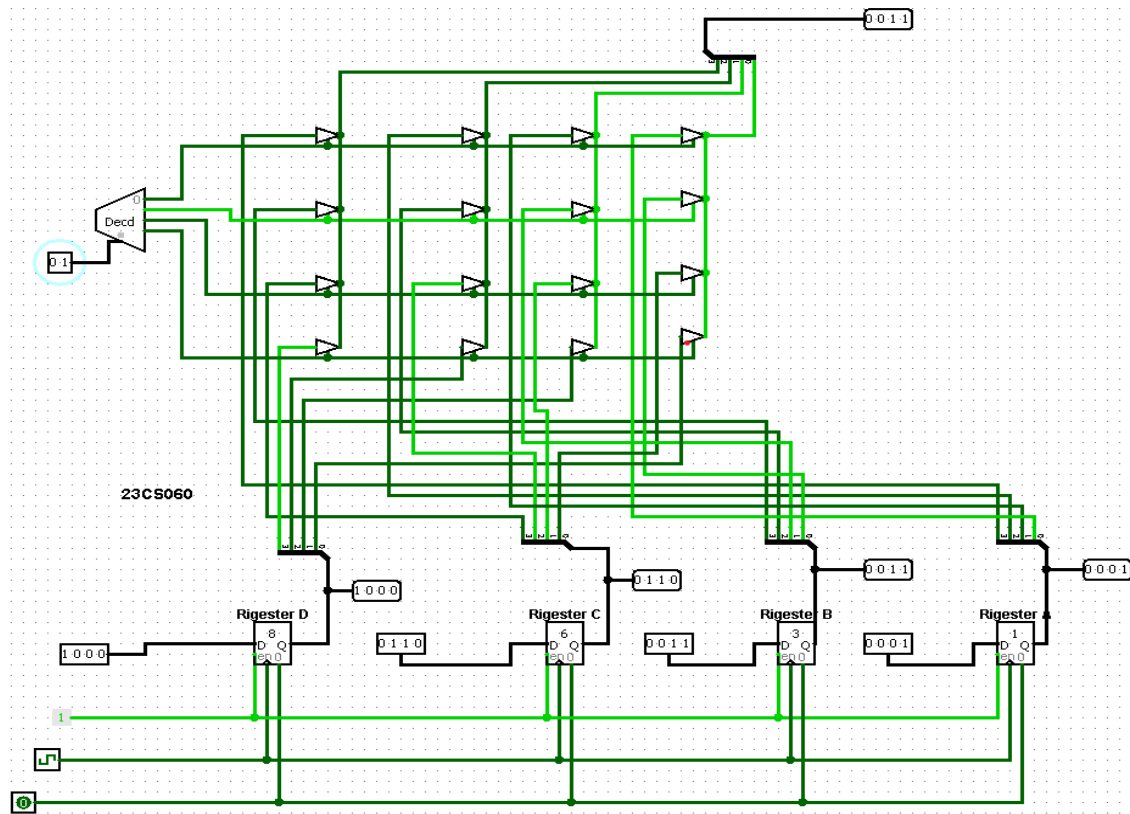
OUTPUT:

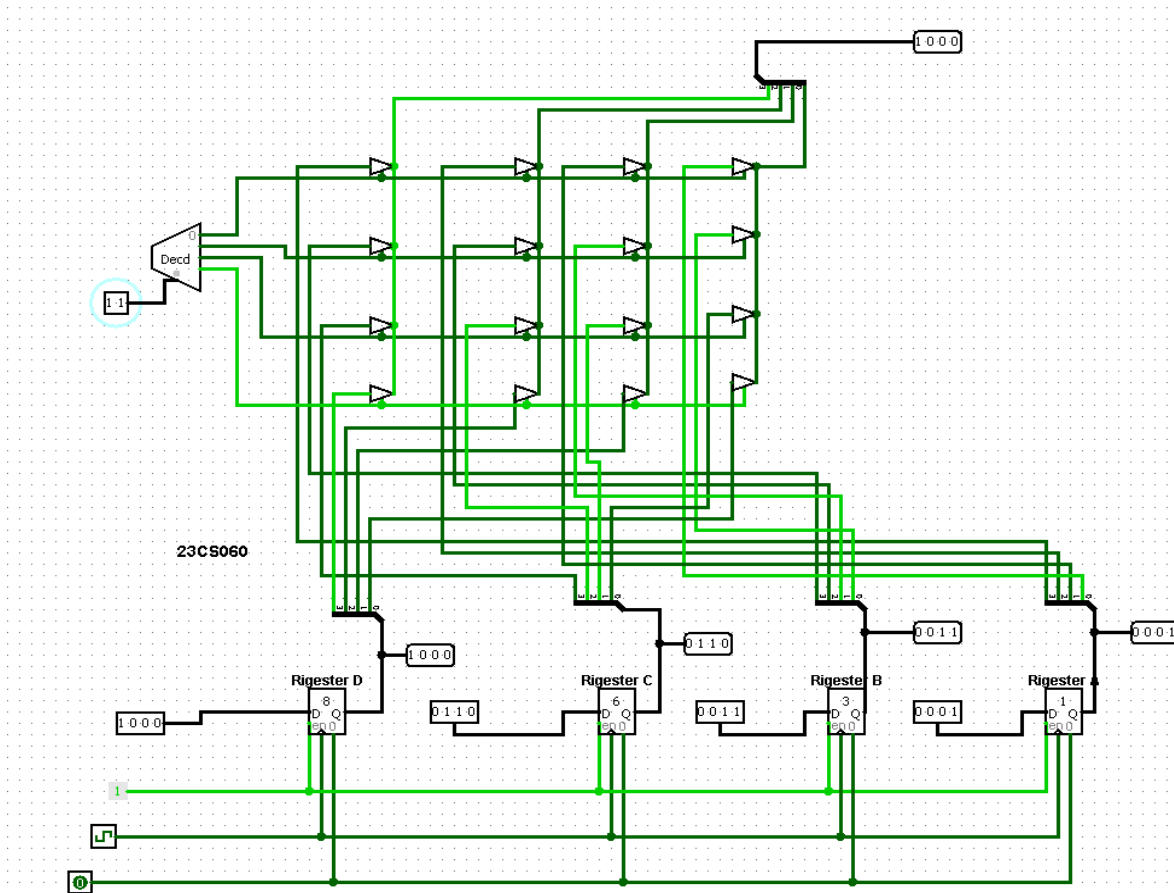
USING MUX







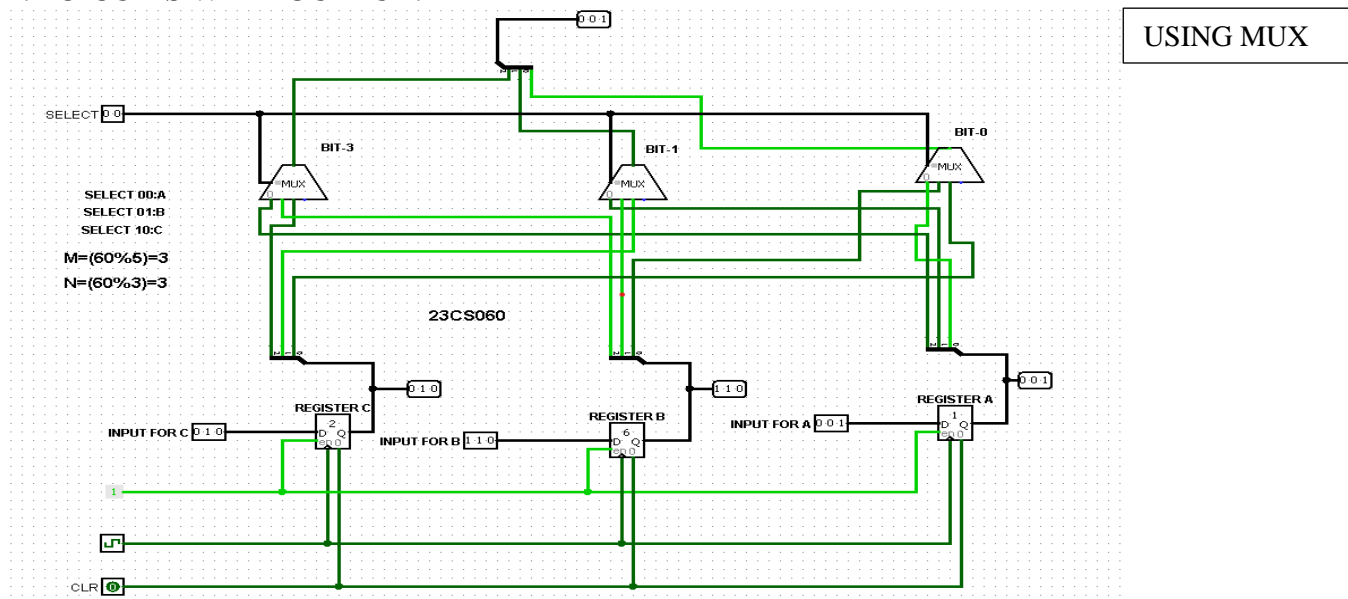


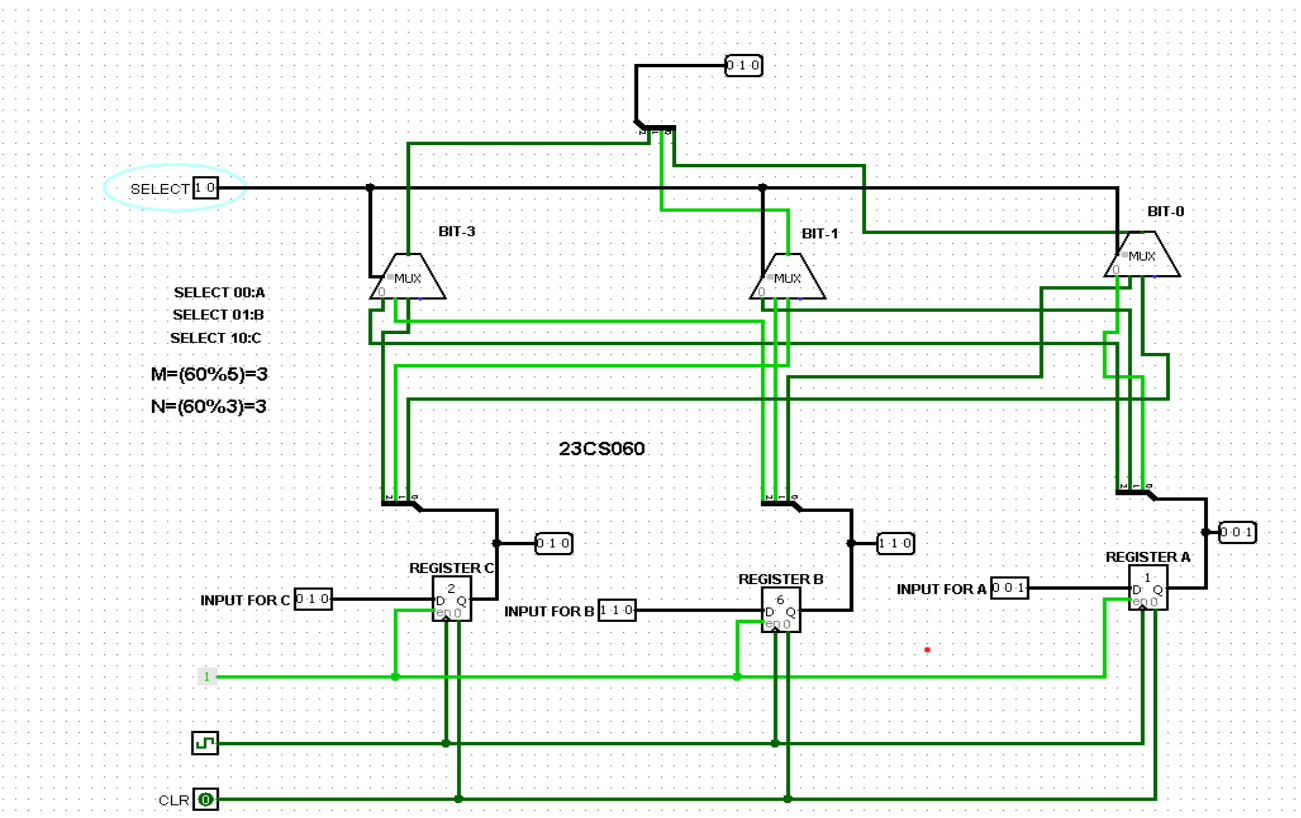
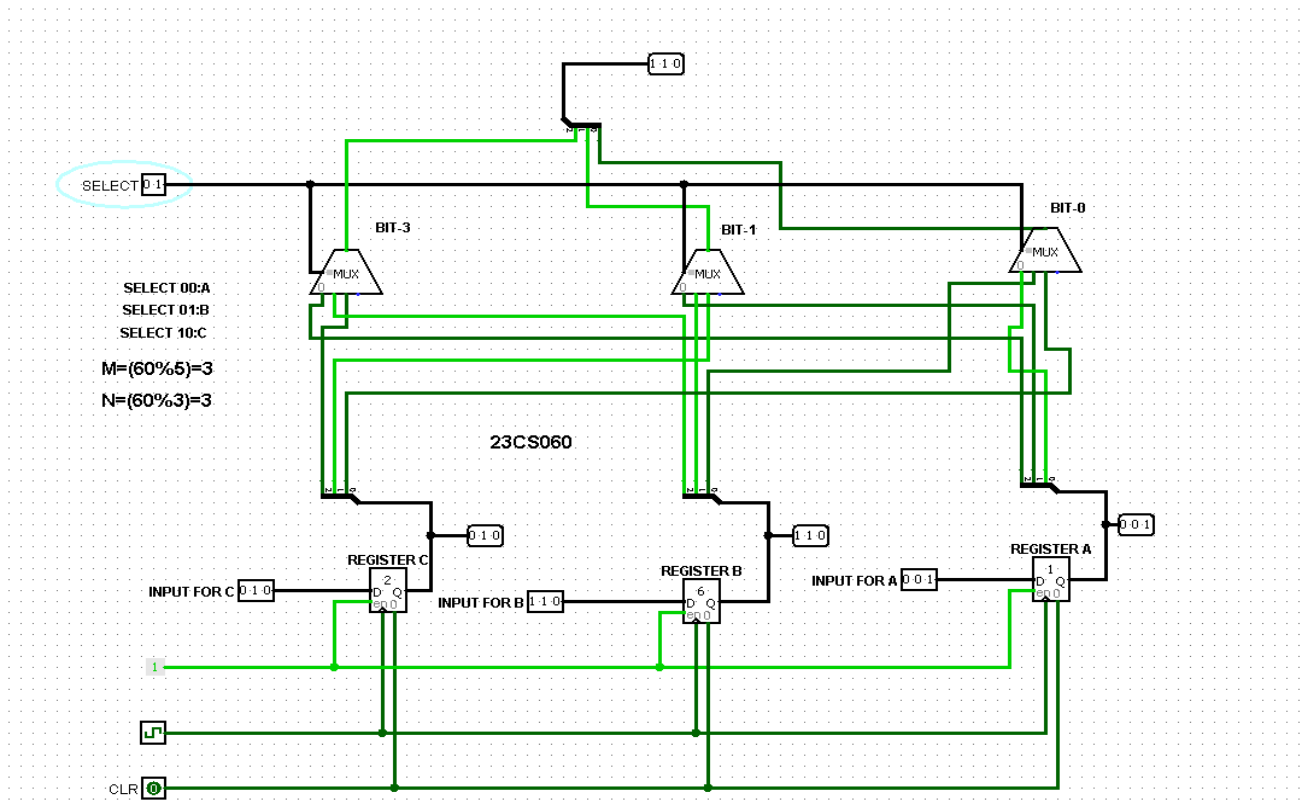


POST SESSION EXERCISES:

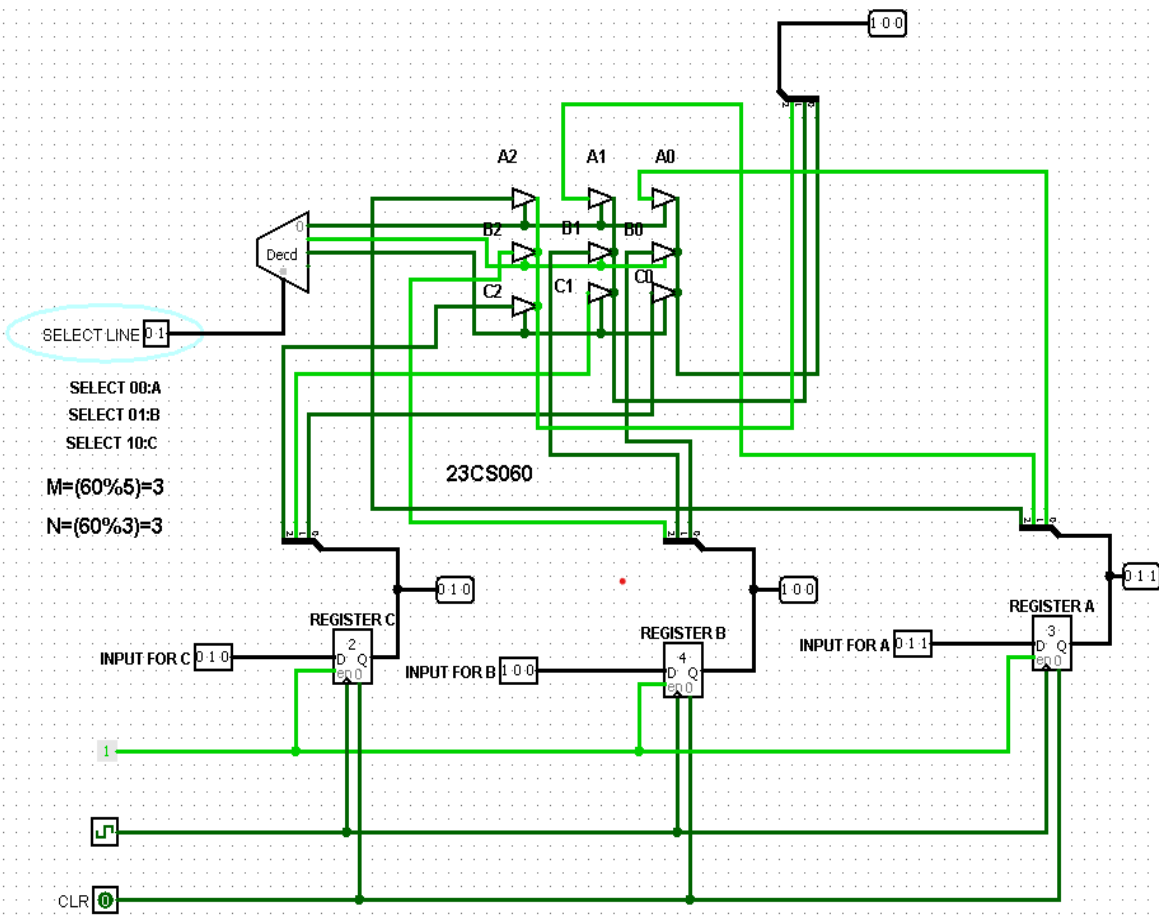
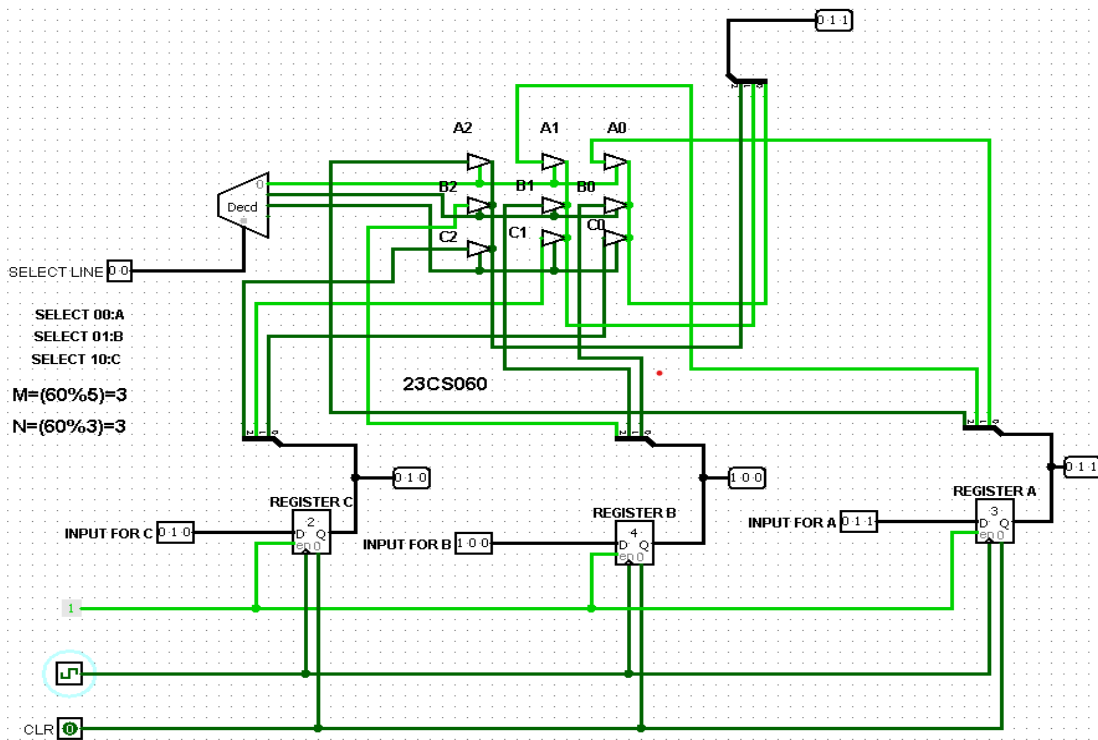
- Find a number $M = (\text{MOD}(\text{Last Three Digits of your enrolment number}, 5) + 3)$ and find a number $N = (\text{MOD}(\text{Last Three Digits of your enrolment number}, 3) + 3)$. Implement a M -bit common bus system to interface N M -bit registers with a common bus using i. Multiplexer and ii. Decoder and tristate buffers

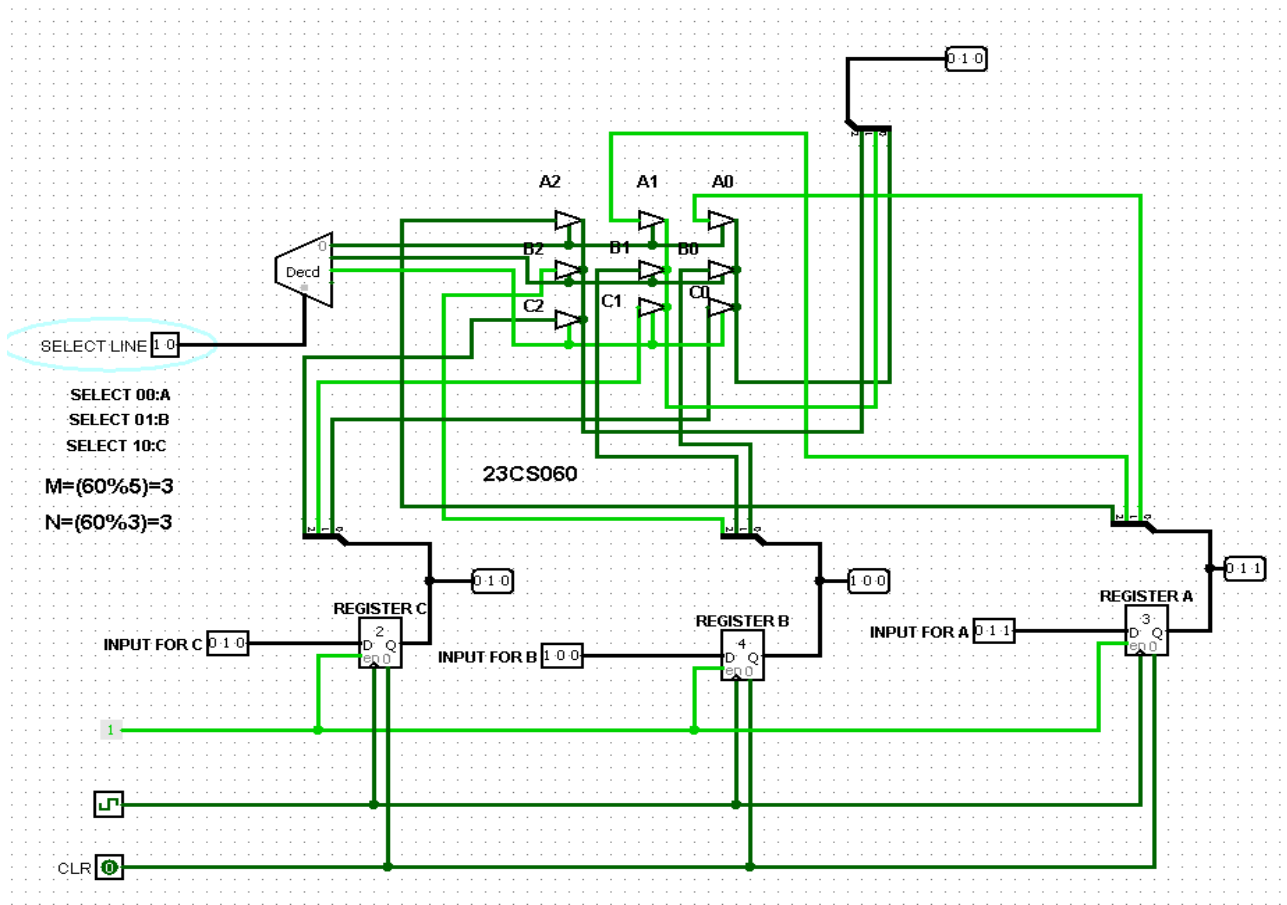
2. CIRCUITS WITH OUTPUT:





USING DECODER





CONCLUSION