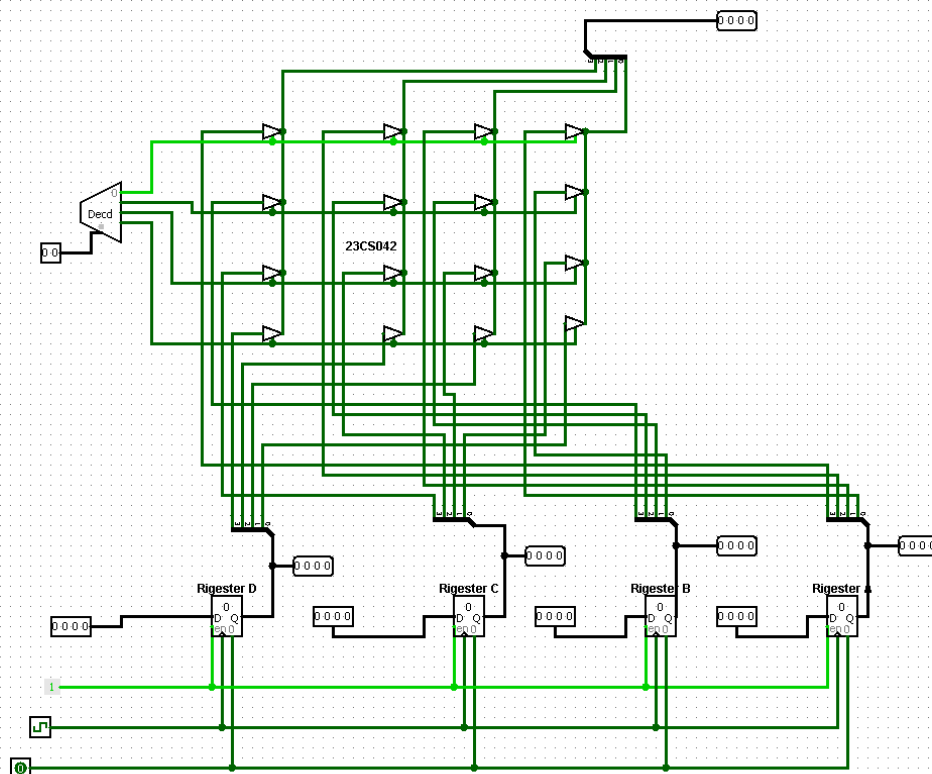
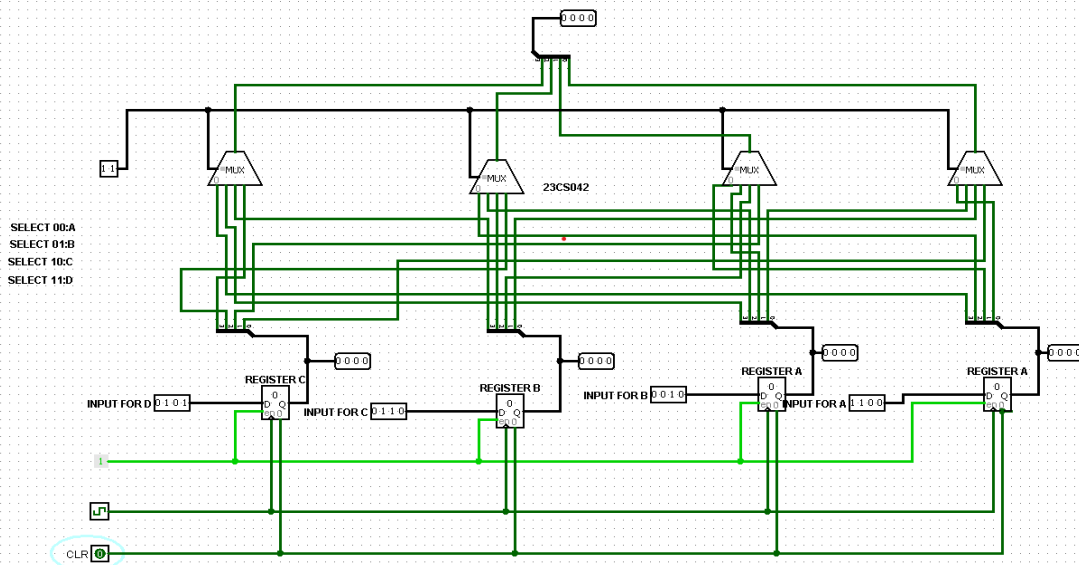
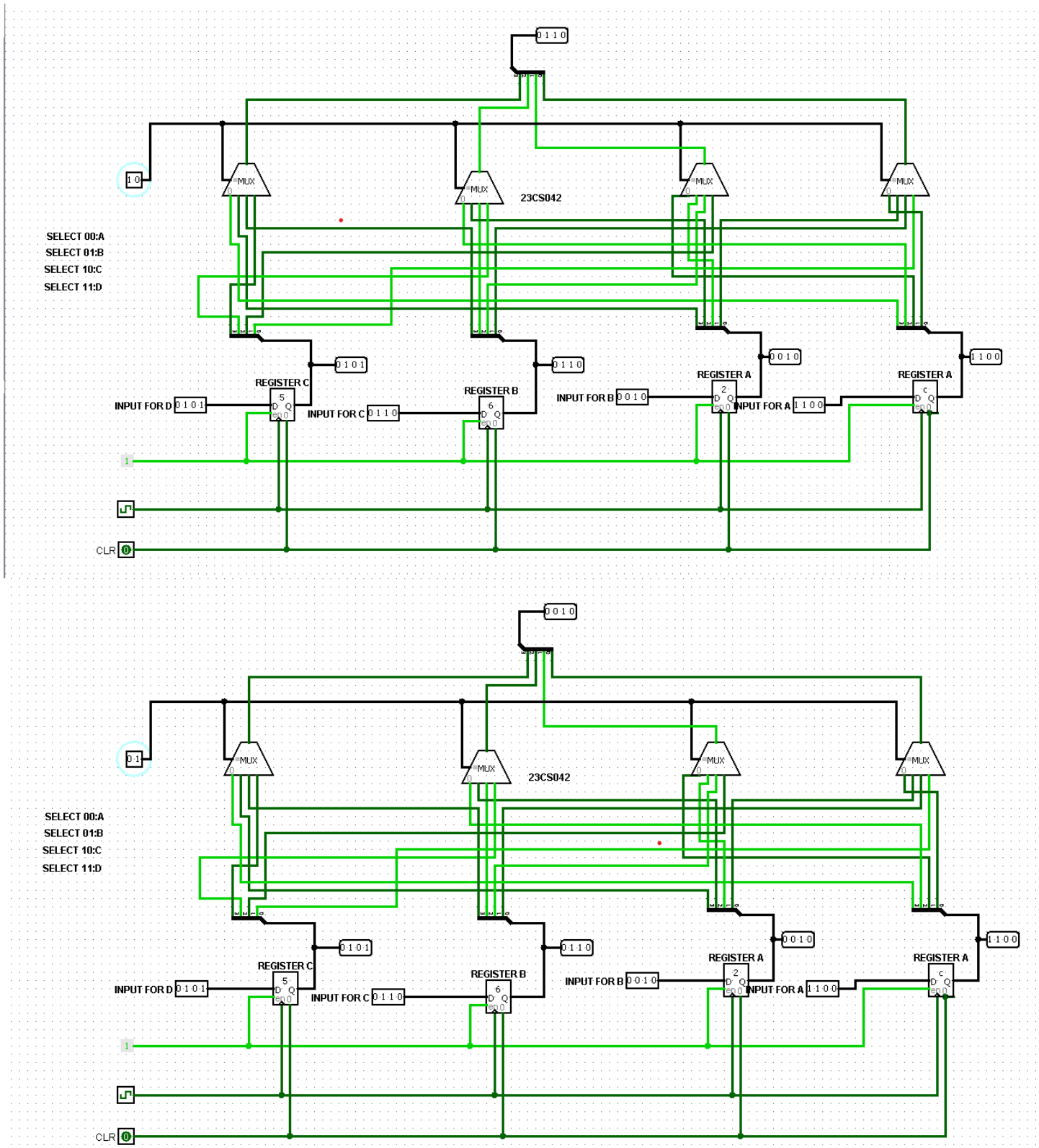


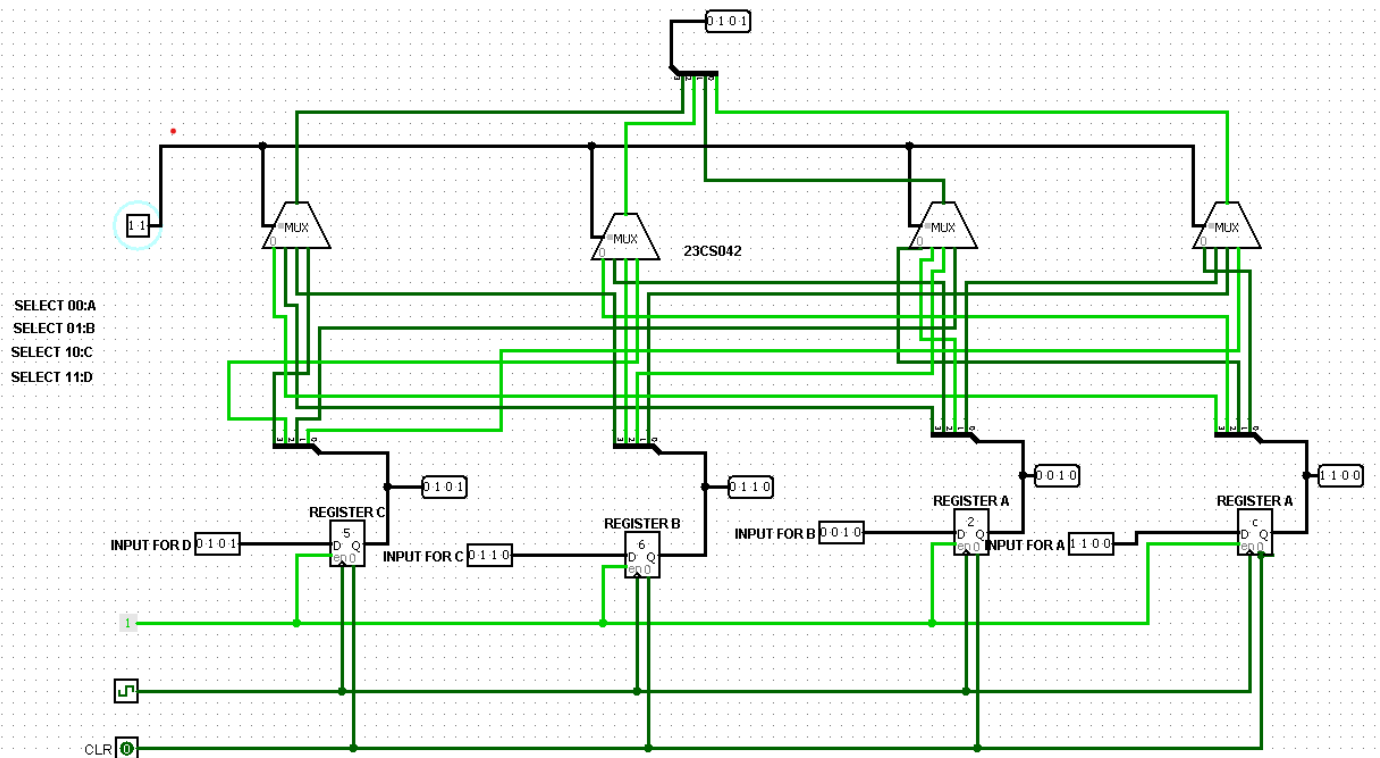
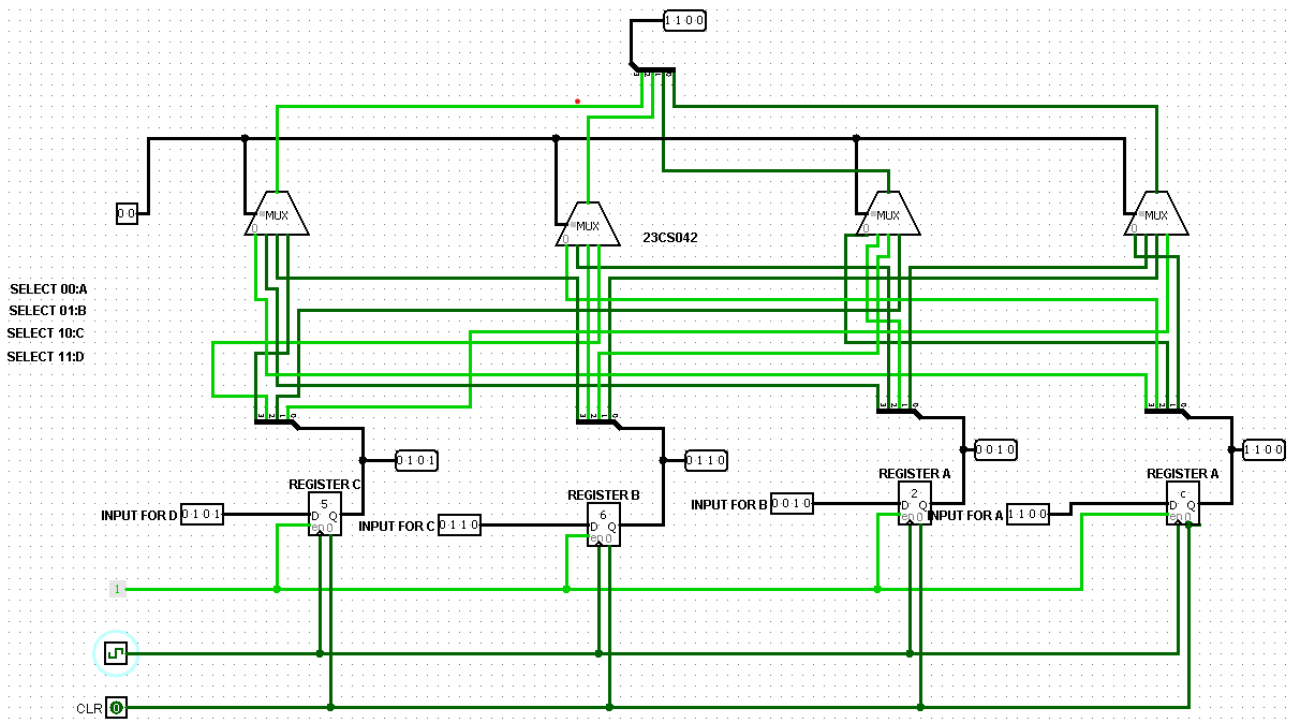
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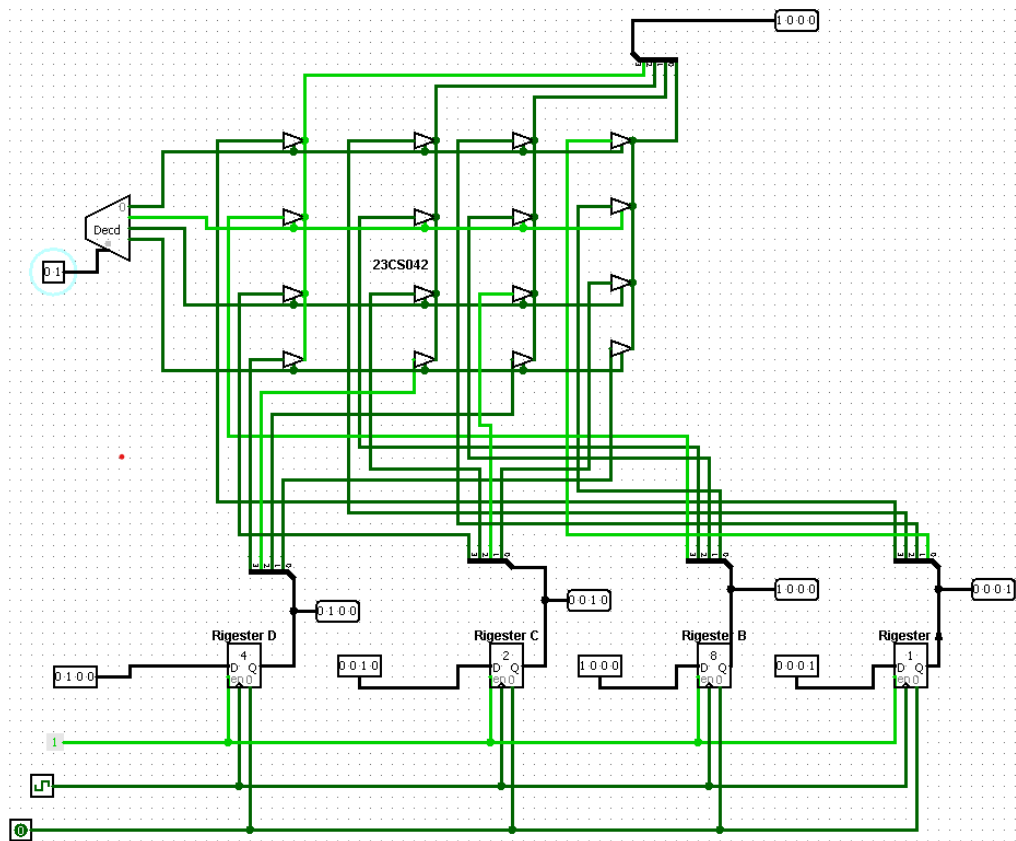
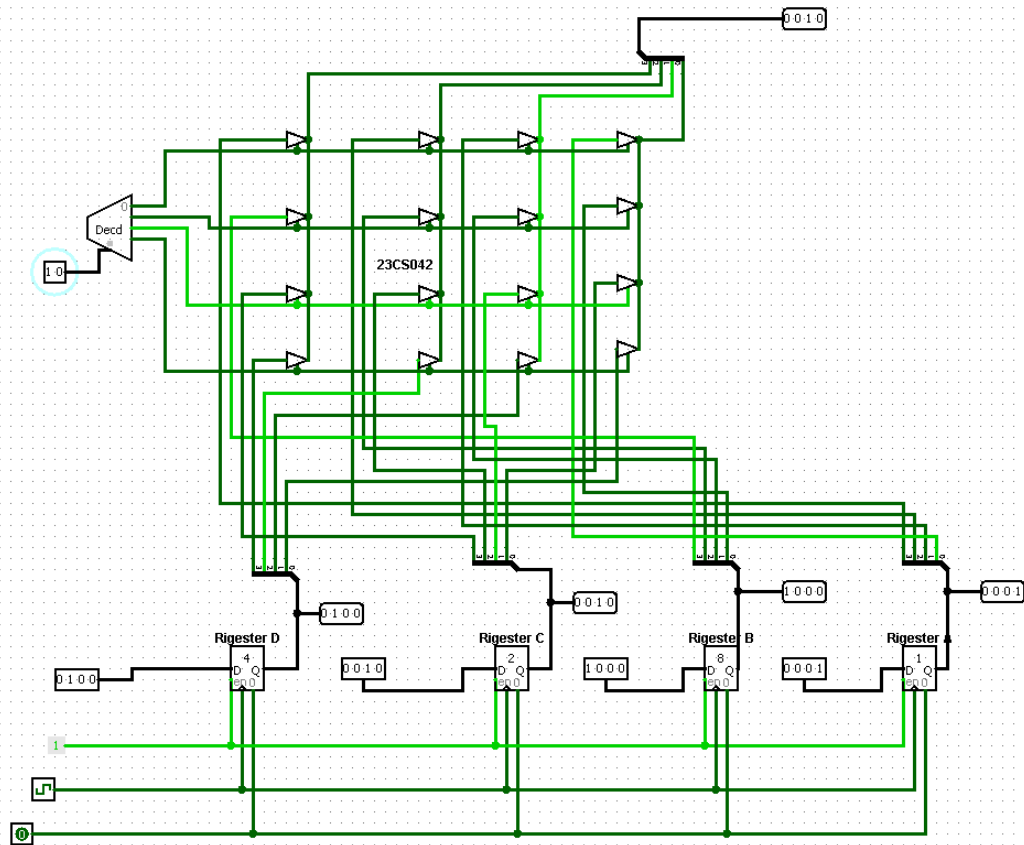
EXPERIMENT NO. 3

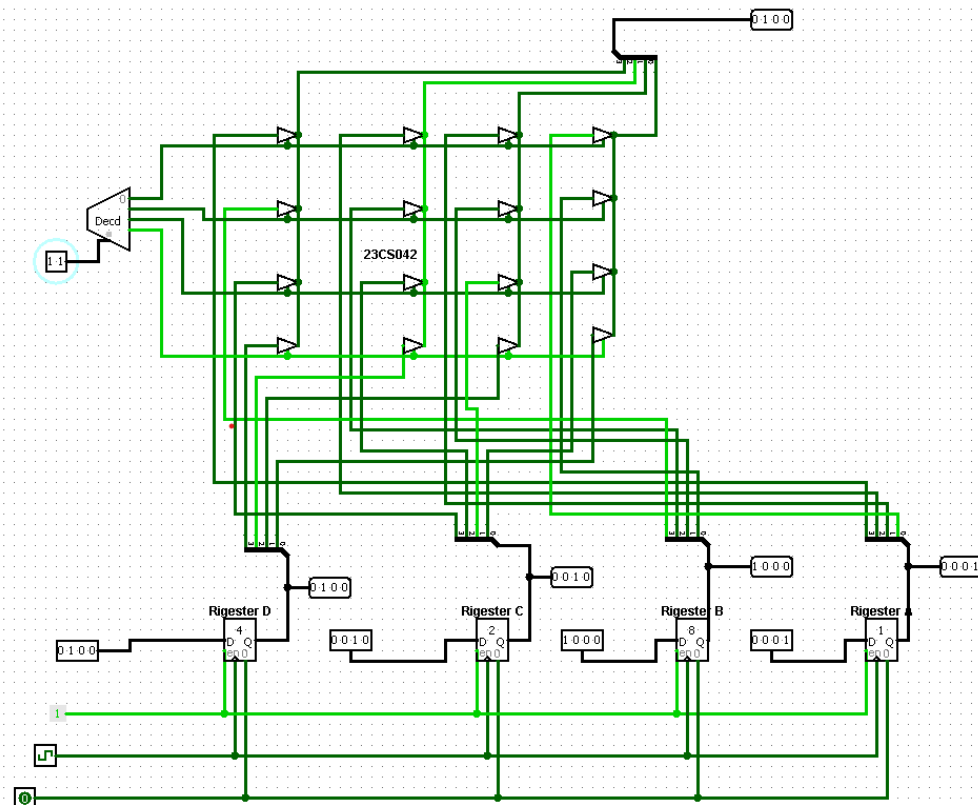
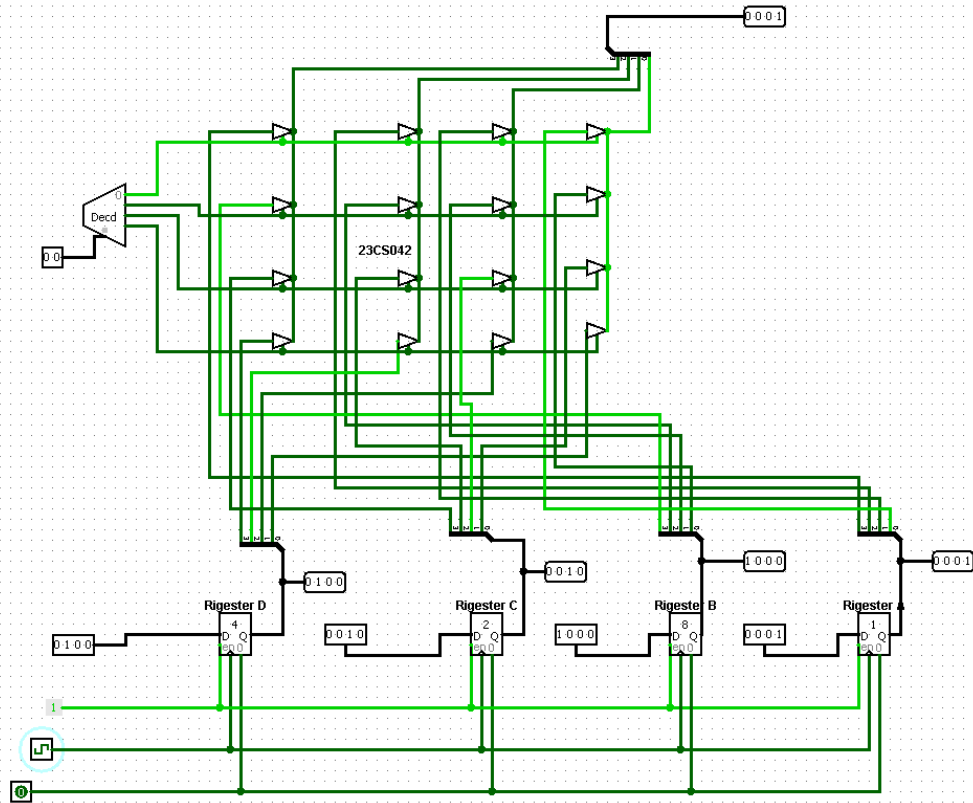
AIM: Implement a 4-bit common bus system to interface four 4-bit registers with a common bus using i. Multiplexer and ii. Decoder and tristate buffers.

CIRCUITS:

OUTPUTS:







CONCLUSION:**POST SESSION EXERCISES:**

1. 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.

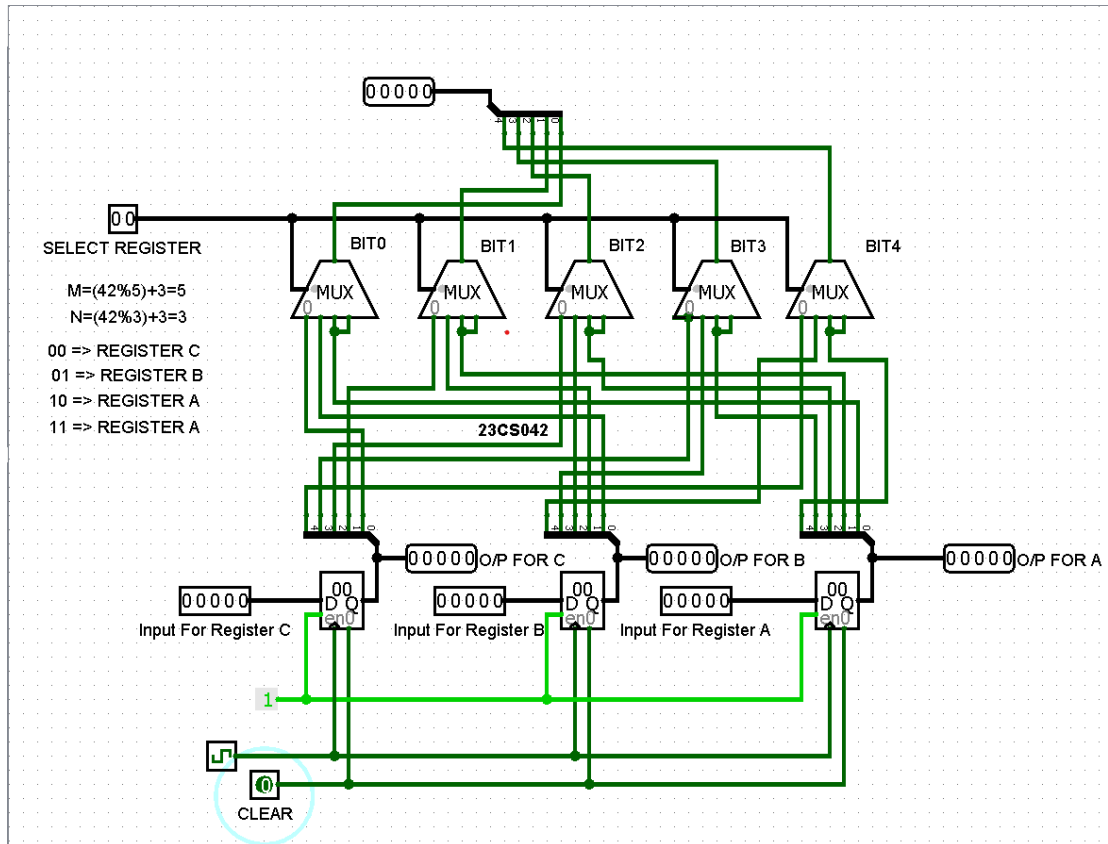
$$M = (42 \% 5) + 3$$

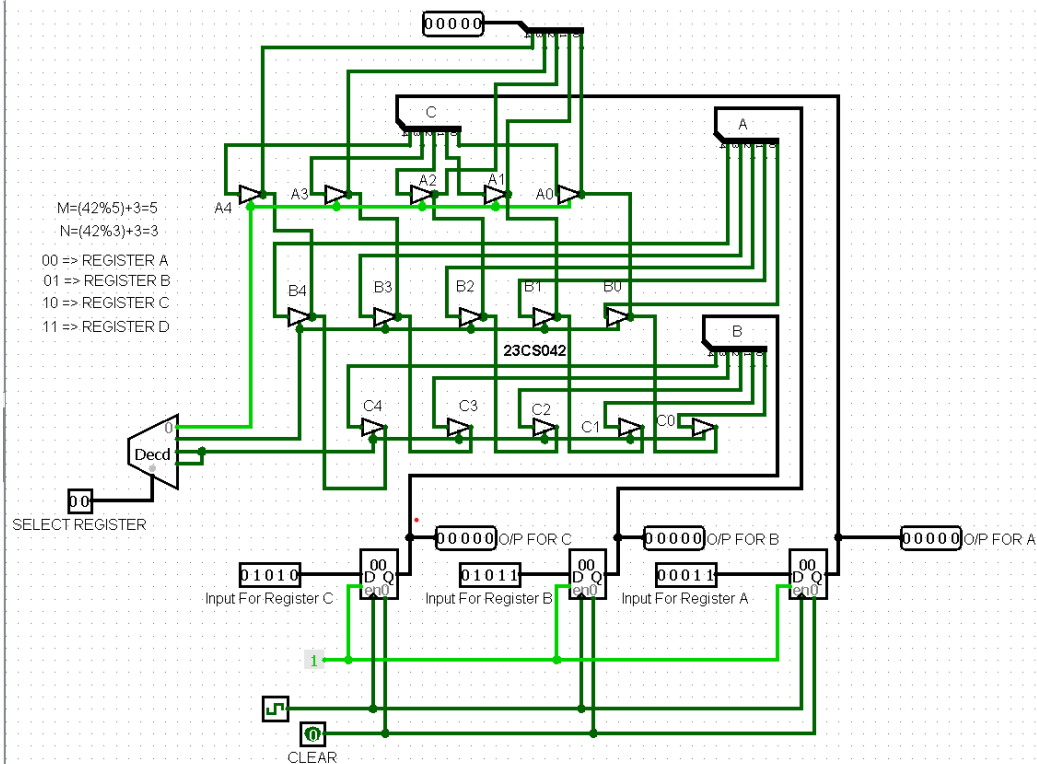
$$M = (2 + 3) = 5$$

$$N = (42 \% 3) + 3$$

$$N = (0 + 3) = 3$$

AIM: Implement a 5-bit common bus system to interface three 5-bit registers with a common bus using i. Multiplexer and ii. Decoder and tristate buffers.

CIRCUITS:



OUTPUTS:

