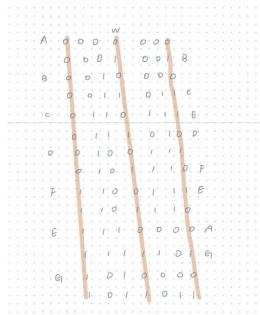
Part1

1. Reset signal is asynchronous.

It is active high since the circuit is reset when the signal is 1.

The reset signal should be ... in the run.

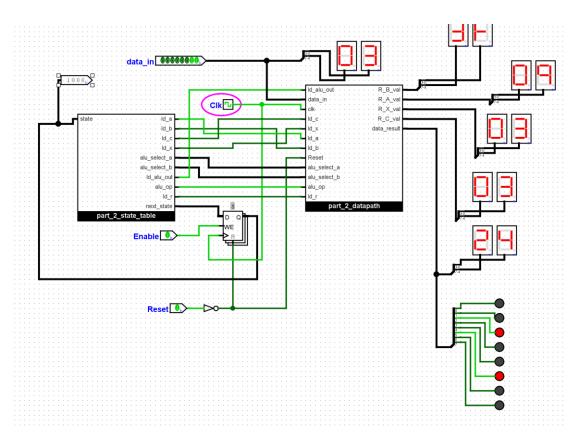


2.

Part2

1.

| | | . idc | . id X | ida. | idb | ٠ | alusa | · a | lusb - | op out. | idr · | · A · | B. | | ٠ |
|----|-------------|--------|--------|--------|-----|-----|---------|-----|---------|-----------|--------|-------|------|---|---|
| | Mul Bx | | | | 1 | ٠ | .01 | * | 11 . | .1 . 1. | · O. | | | | ٠ |
| | ·store in | | | | | | | | | | | | Bx . | | |
| | Sinte in | 15 | | | | | | | | | | | | | |
| | Add Bx+ | 4 | | | 1 | ٠ | .00 | ٠ | 01. | .0 . 1. | · D · | | BX+A | | |
| | ·· store in | В. | | | | ٠ | | | | | | | | | ٠ |
| | | | | | | | | | | | | | | | |
| | .Mul Cx | | | -1 - | | | . 10 | | 11 - | -1 - 1- | .0 . | -Cx- | | | |
| | . 'store in | A. | | | | ٠ | | ٠ | | | | | | | ۰ |
| | | | | | | | | ٠ | | | | | | | ٠ |
| | .Mul. (x2 | | | ٠١. | | | . 00 | | [] | .1. / | .0. | CX2. | | | |
| | . Store in | A . | | . • | | ٠ | | * | | | | | | | * |
| | · · · · | n' m² | | | ٠ | | 00 | ٠ | 01 | D D | . 1. | | | | ٠ |
| | add Bx+ | Atla | | 0. | | | . 00 | ٠ | | | | | | | |
| 2. | | | . 6 | 4. | | | | - | n · | | | | | | |
| | | | 20 | | | • | | | | | | | | • | |
| | | (| / / . | | | . / | 10. | | | ~?· | | | | • | |
| | | | 1 | 1. 7 | - | A | < !· . | ١. | - 0 | WI; | | K |).0 | | |
| | | (loa | A - A | | (0 | ad | B)- | 1. | X lo | ad C : | -X 100 | dx | / | | |
| | , | - X | 0000 | | | | | | . \ | <i></i> . | | 1. | | | |
| | 1001 | / | | | | 000 |) | | (| 00[] | . 0111 | -1- | | - | |
| | BX+A+ | 10.7 | 0 |) | * | | | | | | | | | | |
| | (RXT.At | LX | L | | | 00 | · · · | | . (1 | 0 | | :/, - | | • | |
| | | F. | ~ . | - · (. | / | | · , · · | Ι. | . / | | 1 | · . | | ٠ | |
| | 1, | . /.(0 | X2.) < | - | {(| (x) | <- | | - · (B | X+A- | - (B | x) | | ٠ | ٠ |
| | | 00 | 1 | | 1 | 11 | | | | 1 | | N | D | | |
| | | | V. | | | V | | | | 2 | (1) | Π | | | |
| | | | 0. | | | .0 | | | | · | | 3.0 | | | |
| 3 | | | | | | 7 | T | | | [/ | Δ | 0 | 12 | | |



4.