

810197491
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CA2

حصہ حسن - دانشور امر الہی

(1)

$$\begin{array}{c} a_1 a_0 \\ b_1 b_0 \\ \hline c_3 c_2 c_1 c_0 \end{array}$$

| $a_1 a_0$ $b_1 b_0$ | 00 | 01 | 11 | 10 |
|------------------------|----|----|----|----|
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 1 | 1 | 0 |
| 11 | 0 | 1 | 1 | 0 |
| 10 | 0 | 0 | 0 | 0 |

$$C_0 = a_0 b_0$$

| $a_1 a_0$ $b_1 b_0$ | 00 | 01 | 11 | 10 |
|------------------------|----|----|----|----|
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 1 | 1 |
| 11 | 0 | 1 | 0 | 1 |
| 10 | 0 | 1 | 1 | 0 |

$$C_1 = \bar{a}_1 a_0 b_1 + a_1 \bar{a}_0 b_1 + a_1 b_1 \bar{b}_0 + a_1 b_1 b_0$$

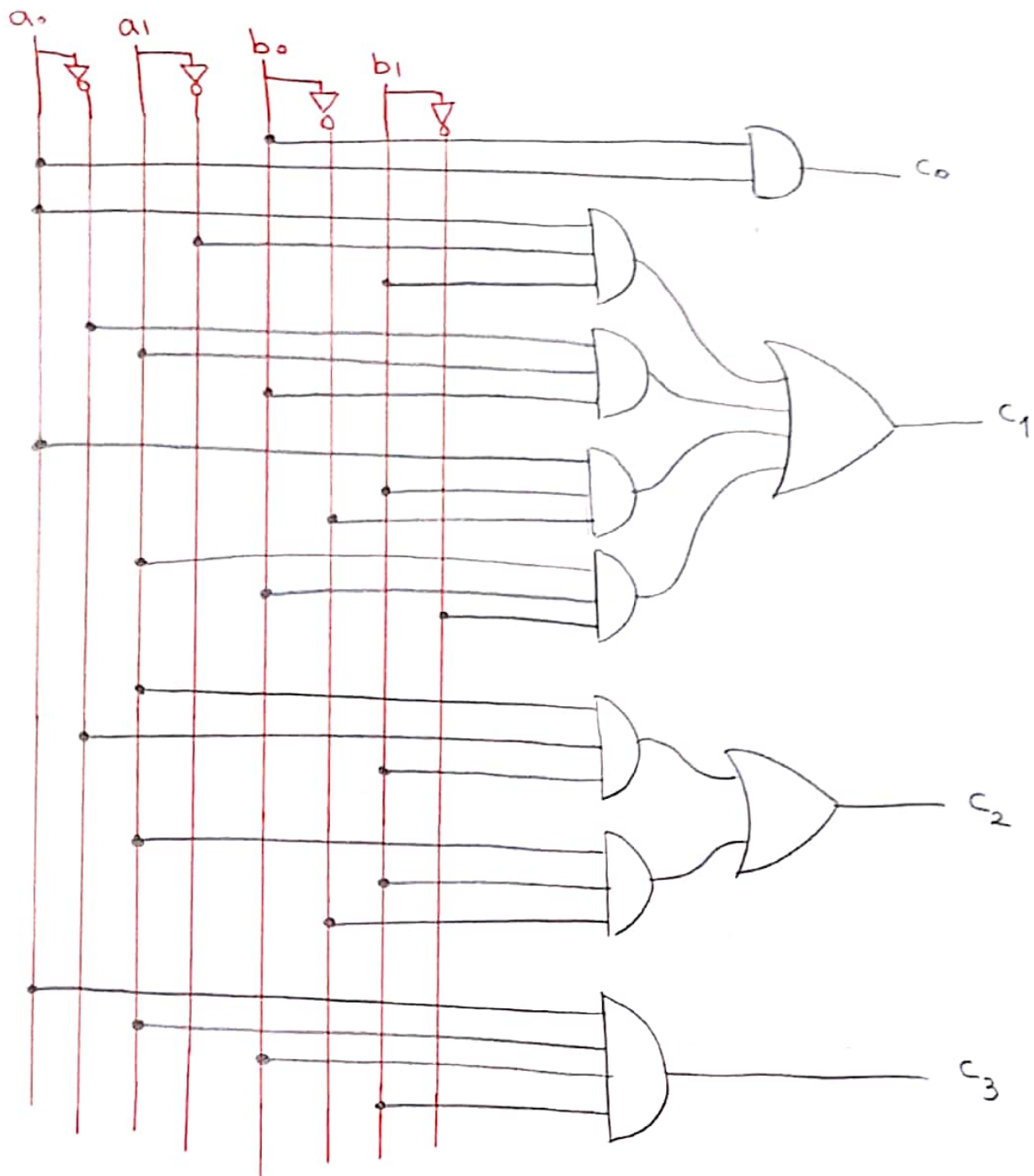
| $a_1 a_0$ $b_1 b_0$ | 00 | 01 | 11 | 10 |
|------------------------|----|----|----|----|
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 1 |
| 10 | 0 | 0 | 1 | 1 |

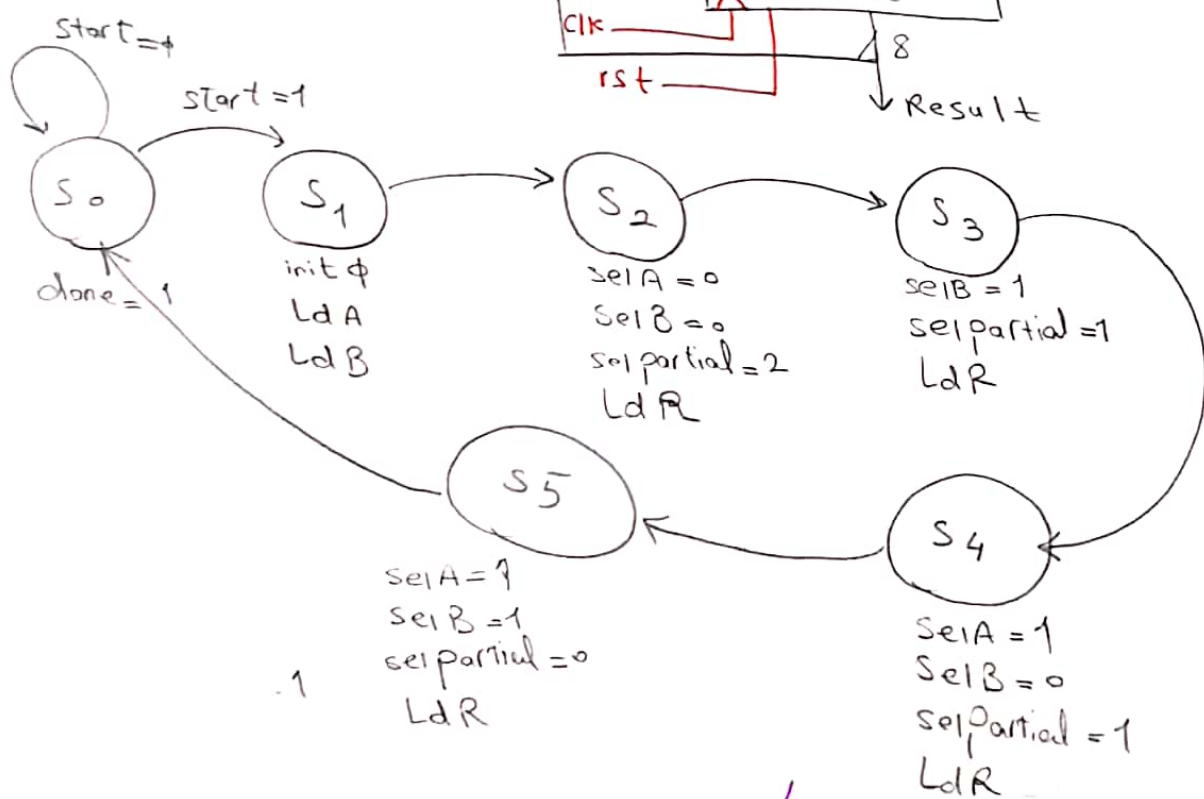
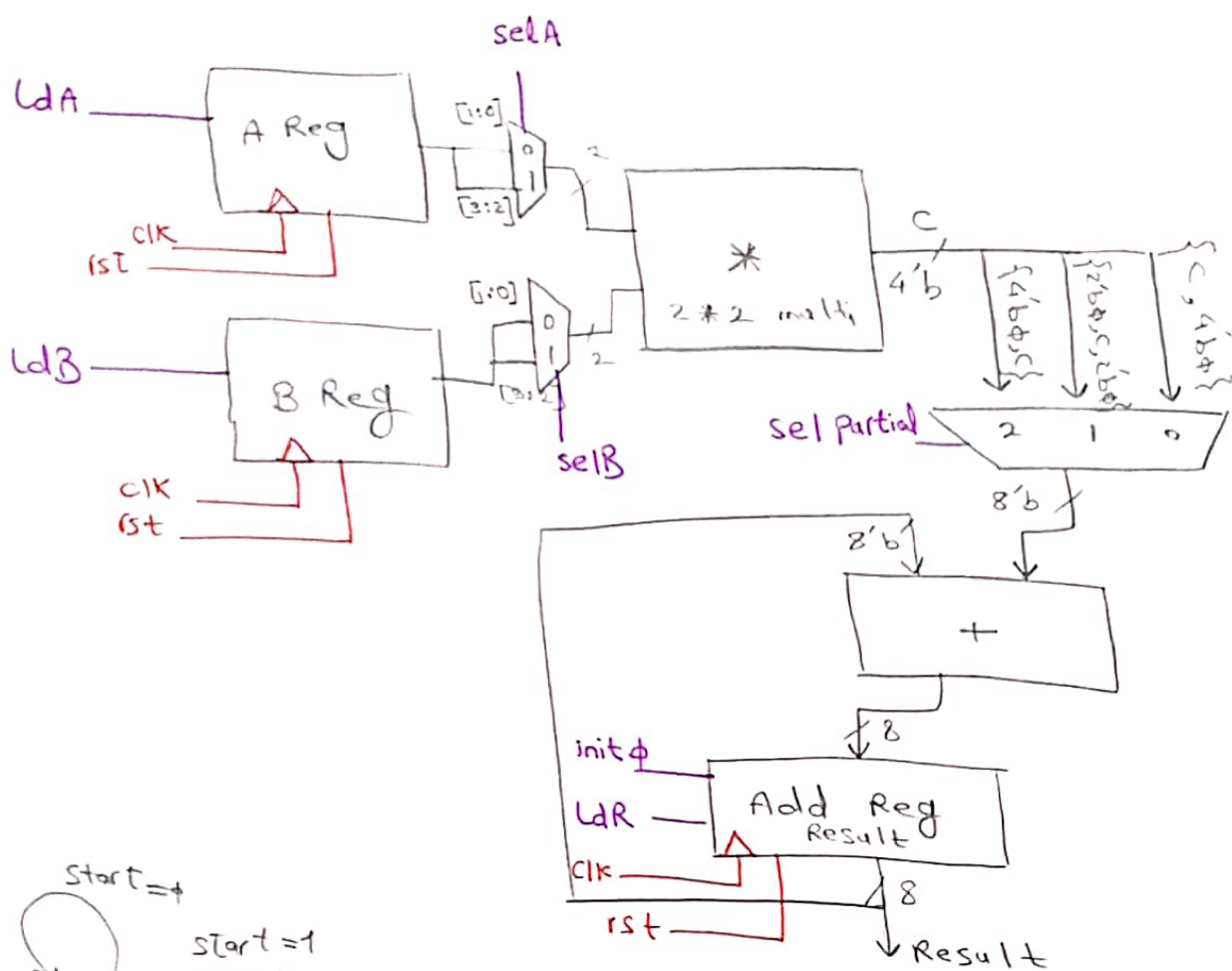
$$C_2 = a_1 \bar{a}_0 b_1 + a_1 b_1 \bar{b}_0$$

| $a_1 a_0$ $b_1 b_0$ | 00 | 01 | 11 | 10 |
|------------------------|----|----|----|----|
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 1 | 0 |
| 10 | 0 | 0 | 0 | 0 |

$$C_3 = a_1 a_0 b_1 b_0$$

سہل صفحہ





* سیکل ہر تقسیم ۱۰ سیکل کرتا ہے

$$a = x + jy$$

$$a \times b = (xz - yw, xw + zy)$$

$$b = \underbrace{z}_{\text{Cw4}} + j \underbrace{w}_{\text{Cw4}}$$

* سیکل های متناوب Controller

