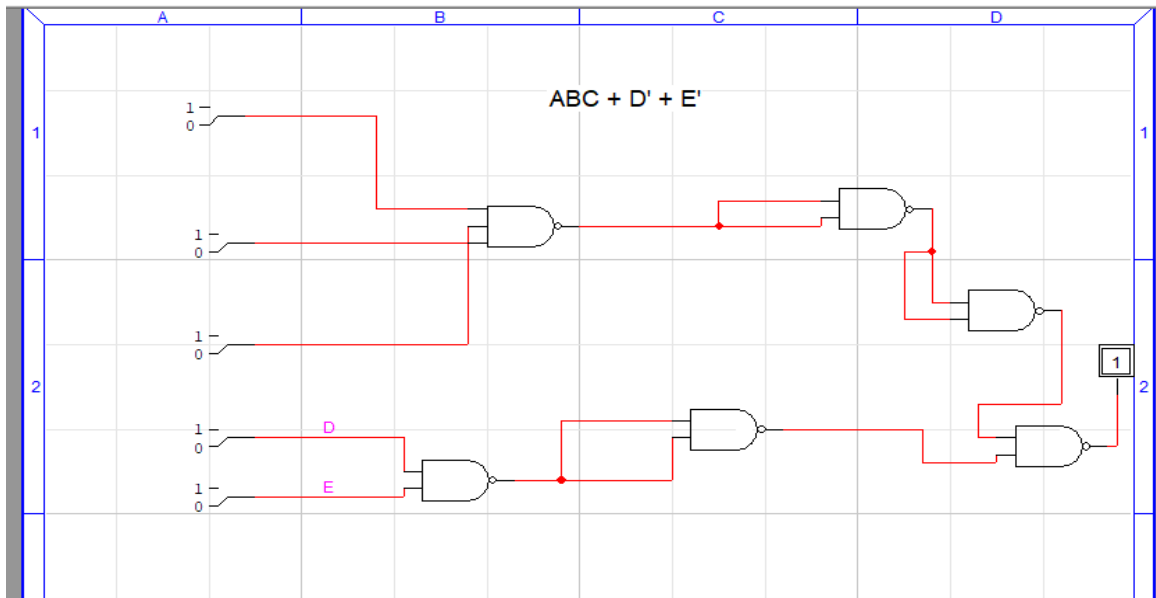
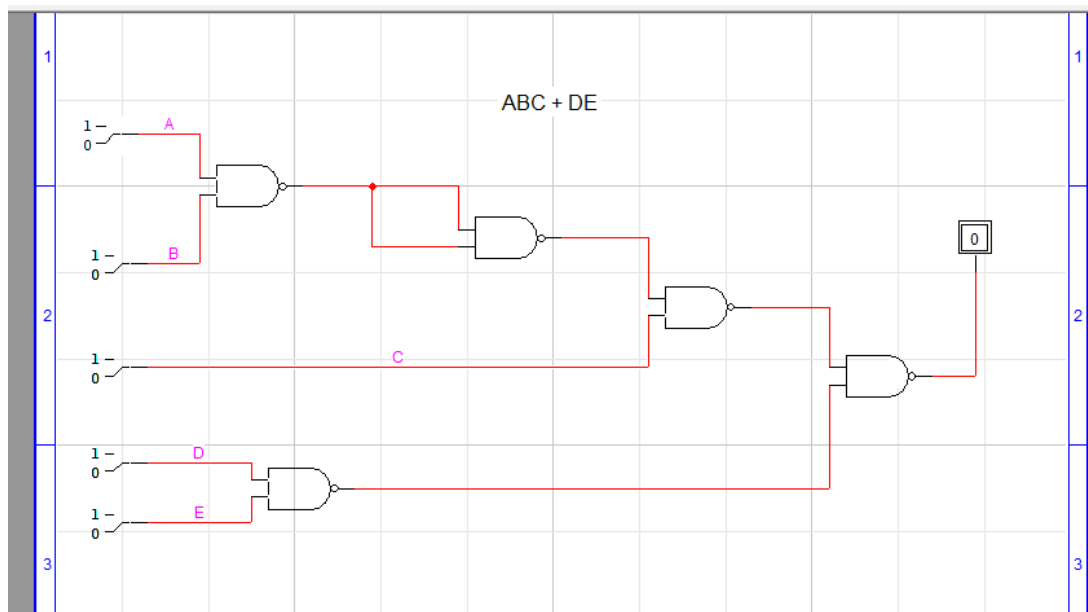


TASK # 01

(1.)

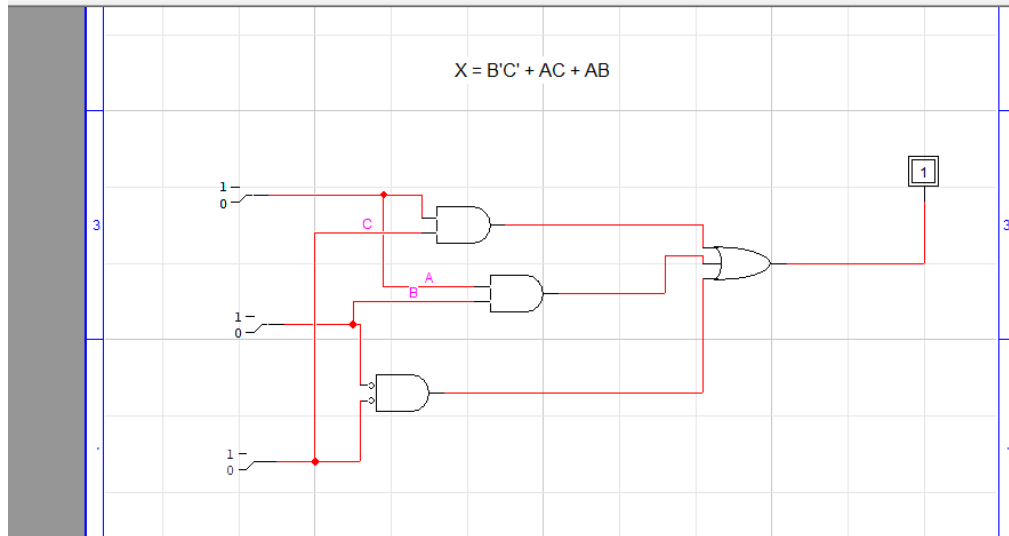


(2)



TASK # 02

(1.)



Date 20
M T W T F S S

Task 2:

$$\overline{A}BC + A\overline{B}C + \overline{A}B\overline{C} + A\overline{B}C + ABC$$

$$\overline{A}BC + \overline{A}B\overline{C}$$

$$\overline{A}BC + \overline{A}B\overline{C} + \overline{A}B\overline{C} + A\overline{B}C + ABC + A\overline{B}C$$

$$\overline{A}(BC + \overline{B}C) + AC(\overline{B} + B) + A\overline{B}C$$

$$+ AC(1)$$

$$+ AC$$

$$\overline{A}B\overline{C} + \overline{A}B\overline{C} + \overline{A}B\overline{C} + AC$$

$$\overline{B}C(\overline{A} + A) + \overline{A}B\overline{C} + AC$$

$$\overline{B}C(1) + \overline{A}B\overline{C} + AC$$

$$\overline{B}C + \overline{A}B\overline{C} + AC$$

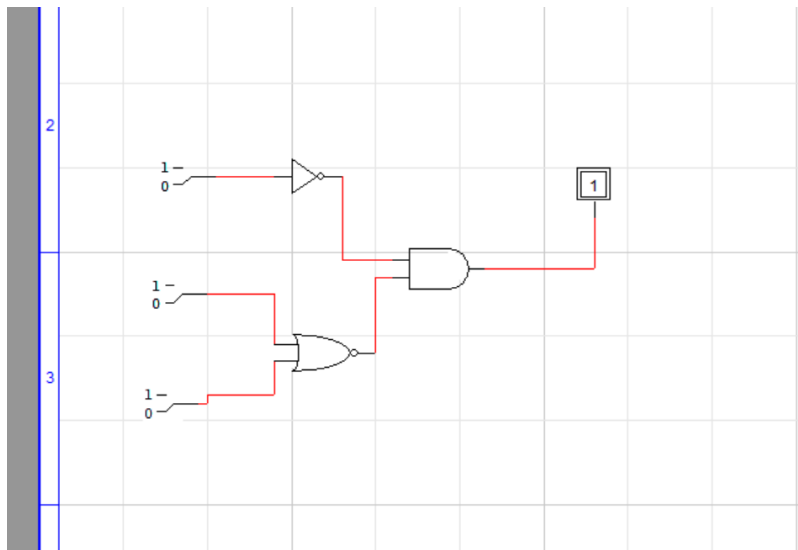
$$\overline{B}C + C(\overline{A}B + A)$$

$$= \overline{A}B + A = A + B$$

$$\overline{B}C + C(A + B)$$

$$\overline{B}C + AC + AB$$

(2.)

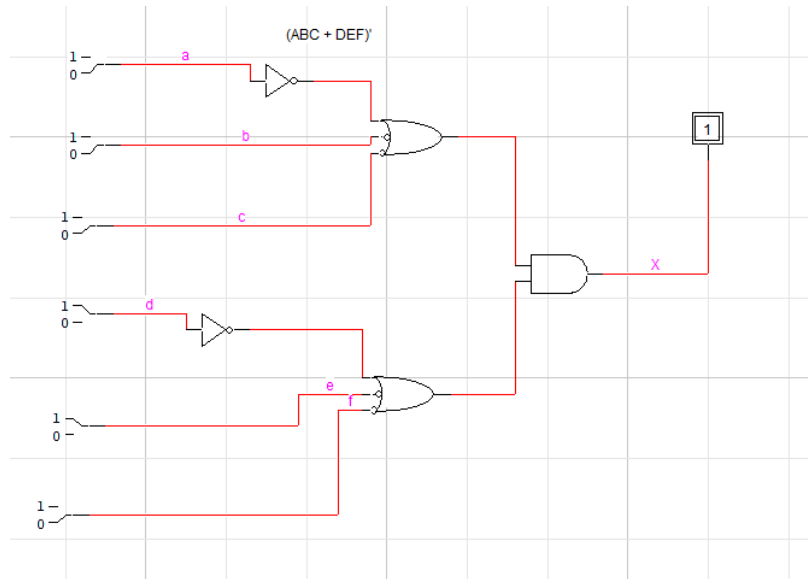


Date _____
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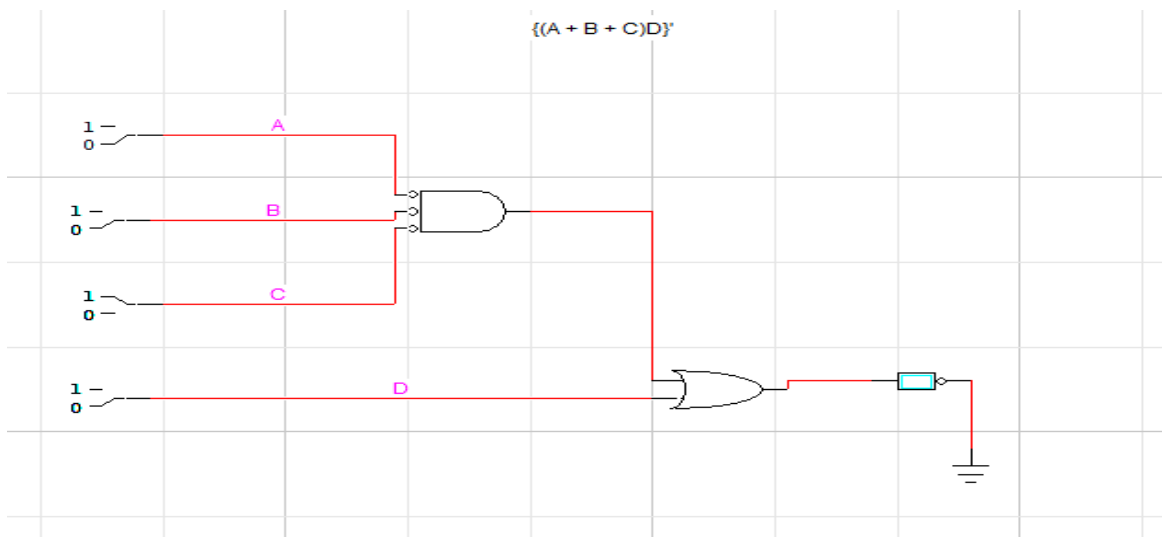
$$AB + AC + A'B'C$$
$$\overline{A}B \cdot AC + \overline{A}B'C$$
$$(\overline{A}+B)(A+C) + \overline{A}B'C$$
$$\overline{A}A + \overline{A}C + \overline{A}B + \overline{B}C + \overline{A}B'C$$
$$\overline{A} + \overline{A}C + \overline{A}B + \overline{B}C + \overline{A}B'C$$
$$\overline{A}(1+C) + \overline{A}B + \overline{A}B'C + \overline{B}C$$
$$\overline{A} + \overline{A}B(1+C) + \overline{B}C$$
$$\overline{A} + \overline{A}B + \overline{B}C$$
$$\overline{A}(1+B) + \overline{B}C$$
$$\overline{A} + \overline{B}C$$

TASK # 03

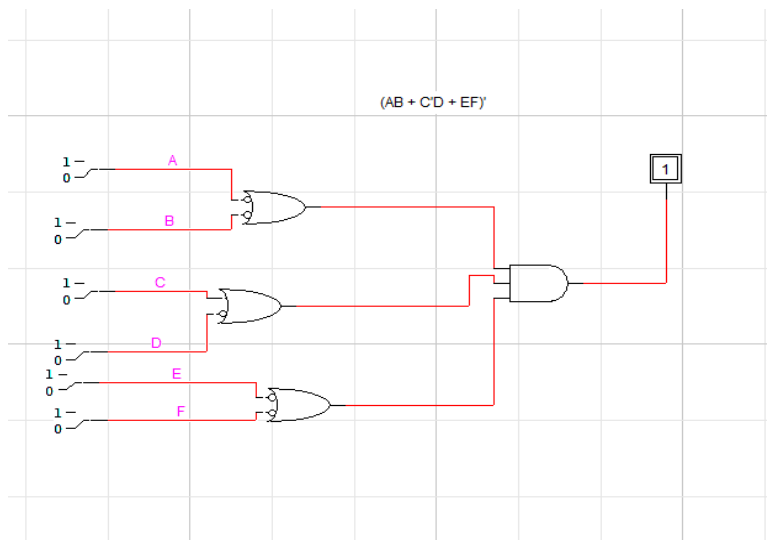
(A.)



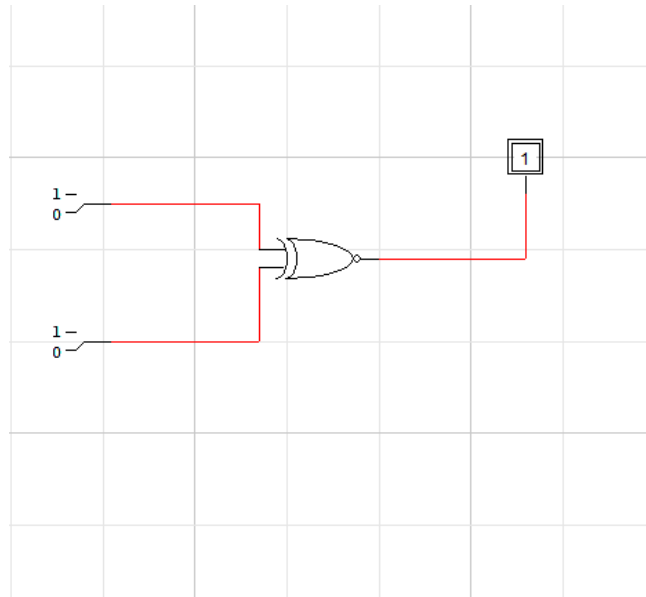
(2.)



(3.)



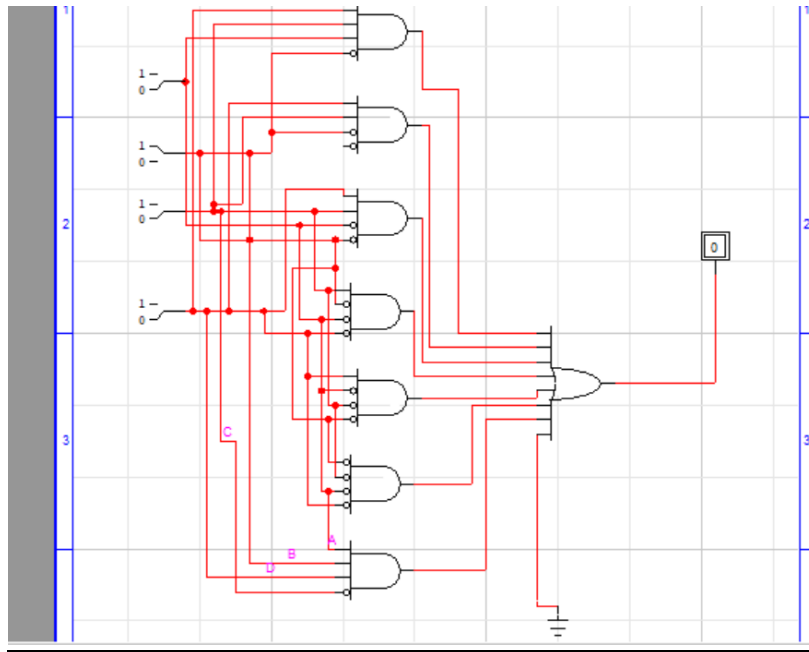
TASK # 04



Task #4:

$$\begin{aligned} &\Rightarrow A\bar{B} + A'B \\ &\Rightarrow \overline{A\bar{B}} + \overline{A'B} \\ &\Rightarrow (\overline{A\bar{B}}) \cdot (\overline{A'B}) \\ &\Rightarrow (\overline{A} + B) \cdot (A + \bar{B}) \\ &\Rightarrow \overline{A}A + \overline{A}B + AB + B\bar{B} \\ &\Rightarrow A\bar{B} + \bar{A}B = D + D \\ &\Rightarrow A\bar{B} + \bar{A}B \end{aligned}$$

TASK # 05



Task #5:

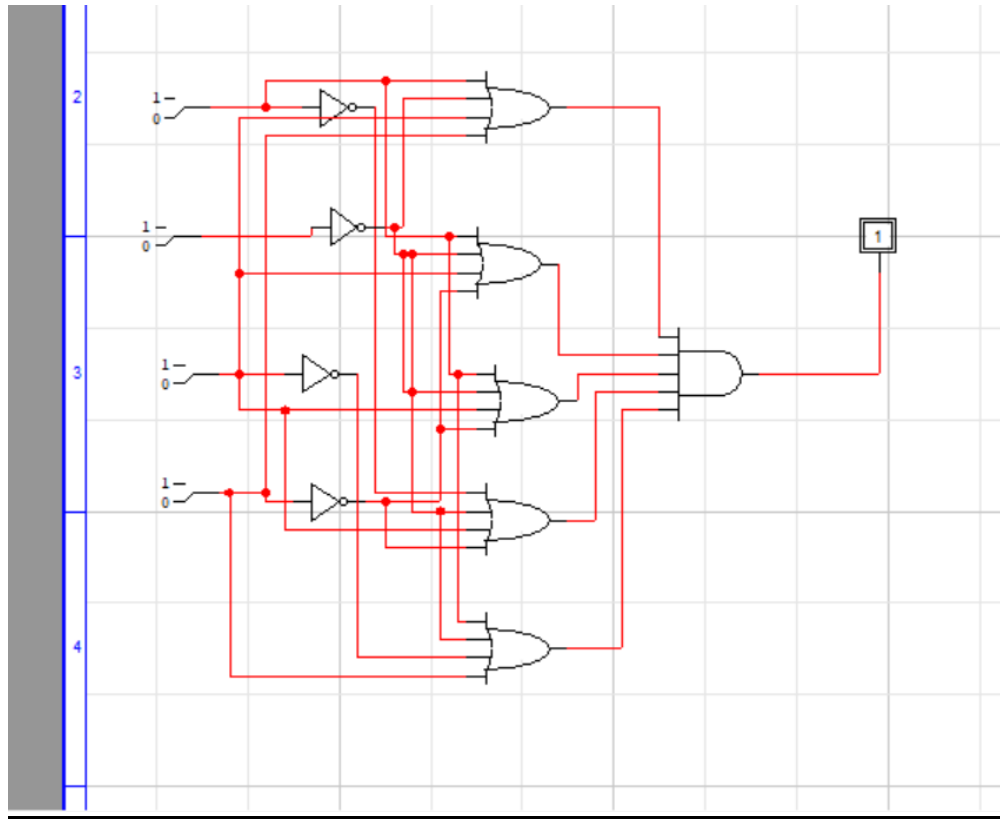
$$A\bar{B}C + \bar{A}\bar{B} + AB\bar{C}D$$

$$A\bar{B}C(D+\bar{D}) + \bar{A}\bar{B}(C+\bar{C})(D+\bar{D}) + AB\bar{C}D$$

$$A\bar{B}CD + A\bar{B}\bar{C}D + (\bar{A}\bar{B}C + \bar{A}\bar{B}\bar{C})(D+\bar{D}) + AB\bar{C}D$$

$$\bar{A}\bar{B}CD + A\bar{B}C\bar{D} + \bar{A}\bar{B}CD + \bar{A}\bar{B}C\bar{D} + \bar{A}\bar{B}CD + \bar{A}\bar{B}C\bar{D} + AB\bar{C}D + AB\bar{C}D$$

TASK # 06



$ABCD$
 $\bar{A}\bar{B}CD + A\bar{B}C\bar{D} + \bar{A}B\bar{C}D + \bar{A}\bar{B}C\bar{D} + A\bar{B}C\bar{D} +$
 $\bar{A}B\bar{C}\bar{D} + ABCD$

Task #16:
 $(A + \bar{B} + C + D \cdot \bar{D})(A \cdot \bar{A} + \bar{B} + C + \bar{D})$
 $(A + \bar{B} + C + D)$

$(A + \bar{B} + C + D)(A + \bar{B} + C + \bar{D})(A + B + C + \bar{D})$
 $(\bar{A} + \bar{B} + C + \bar{D})(A + \bar{B} + C + D)$

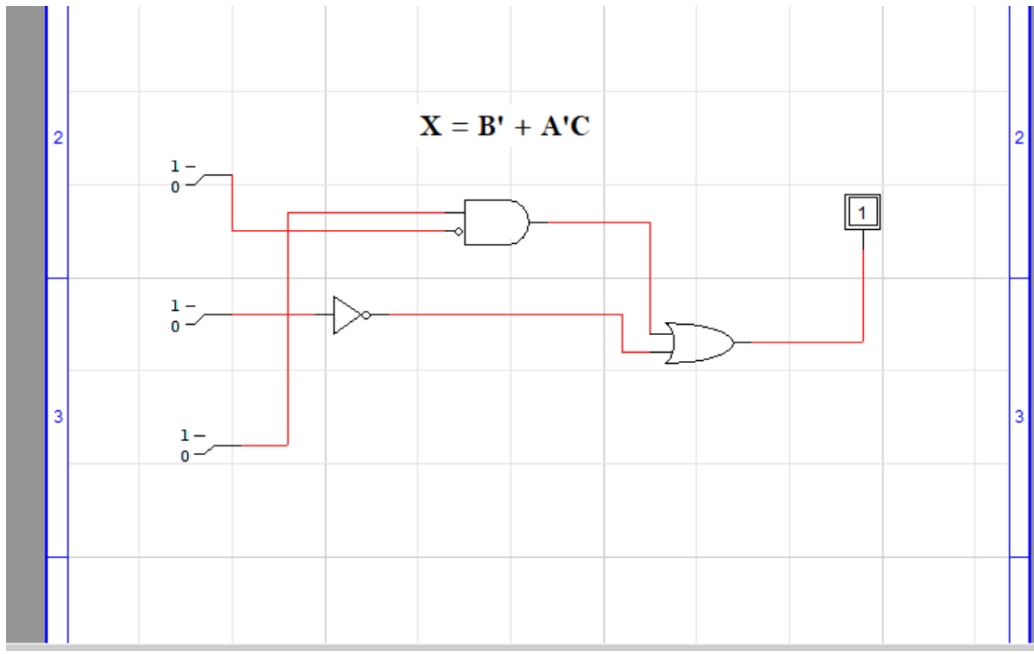
TASK 7:

<u>A</u>	<u>B</u>	<u>C</u>	<u>X</u>
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

TASK 8:

<u>A</u>	<u>B</u>	<u>C</u>	<u>X</u>
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

TASK # 09



Date 20
M T W T F S S

Task # 9

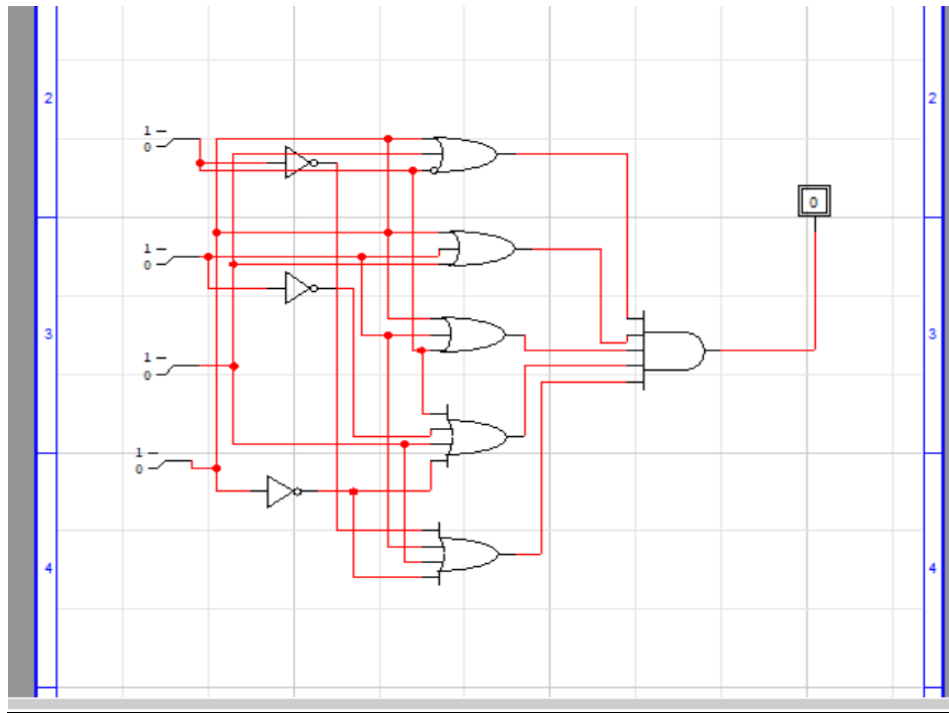
$$A\bar{B}C + \bar{A}BC + \bar{A}\bar{B}C + A\bar{B}\bar{C} + A\bar{B}C$$

ABC	0	1
$\bar{A}\bar{B}00$	1	1
$\bar{A}B01$		1
$AB11$		1
$\bar{A}B10$	1	1

$(\bar{B}) + (\bar{A}C)$

Simplified form

TASK # 10



Simplified form

Task # 10

$$\frac{(A+B+C+D)(\bar{A}+B+C+D)(A+B+\bar{C}+D)(\bar{A}+B+C+\bar{D})}{(A+B+C+\bar{D})(\bar{A}+B+C+D)}$$

AB/CD	00	01	11	10
00	0			0
01		0		
11	0			
10	0	0		

$$(\bar{A}+C+D)(B+C+\bar{D})(A+B+D)(\bar{A}+B+C+\bar{D})$$

$$(\bar{A}+B+C+\bar{D})$$