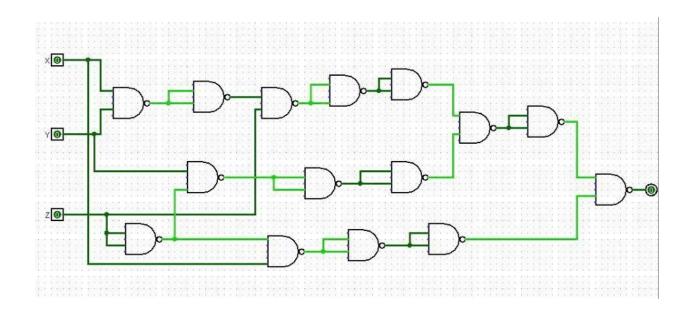
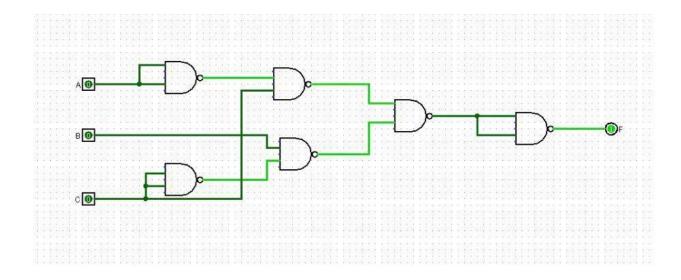
a. 
$$F(x,y,z) = (x.y.z) + (y.z') + (x.z')$$

Х	У	Z	x.z'	y.z'	x.y.z	x.z'+y.z'+x.y.x
0	0	0	0	0	0	0
0	0	1	0	0	0	0
0	1	0	0	1	0	1
0	1	1	0	0	0	0
1	0	0	1	0	0	1
1	0	1	0	0	0	0
1	1	0	1	1	0	1
1	1	1	0	0	1	1



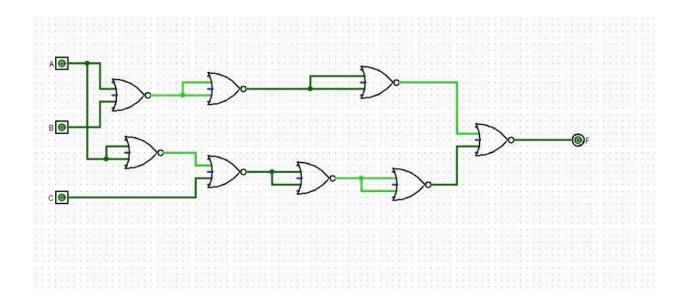
# b. $G(A,B,C) = (A + C') \cdot (B' + C)$

Α	В	С	C'	A+C'	B'	B'+C	(A+C').(B'+C)
0	0	0	1	1	1	1	1
0	0	1	0	0	1	1	0
0	1	0	1	1	0	0	0
0	1	1	0	0	0	1	0
1	0	0	1	1	1	1	1
1	0	1	0	1	1	1	1
1	1	0	1	1	0	0	0
1	1	1	0	1	0	1	1



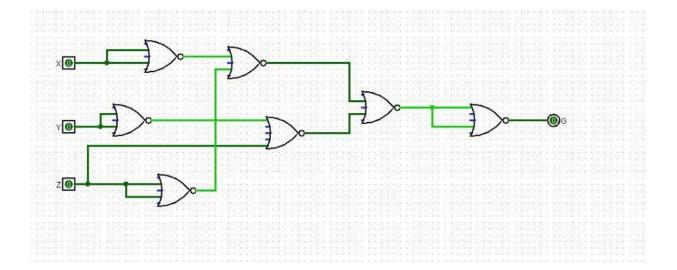
# a. F(A,B,C) = (A' + C).(A + B)

Α	В	С	A'	A'+C	A+B	(A'+C).(A+B)
0	0	0	1	1	0	0
0	0	1	1	1	0	0
0	1	0	1	1	1	1
0	1	1	1	1	1	1
1	0	0	0	0	1	0
1	0	1	0	1	1	1
1	1	0	0	0	1	0
1	1	1	0	1	1	1

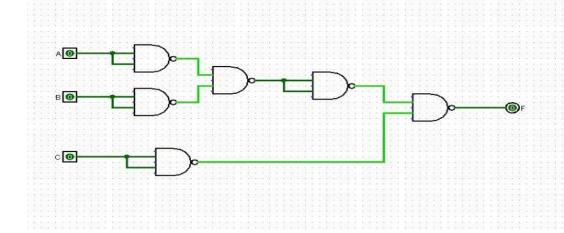


# b. G(x,y,z) = x.z + y.z'

Х	у	Z	x.z	z'	y.z'	x.z+y.z'
0	0	0	0	1	0	0
0	0	1	0	0	0	0
0	1	0	0	1	1	1
0	1	1	0	0	0	0
1	0	0	0	1	0	0
1	0	1	1	0	0	1
1	1	0	0	1	1	1
1	1	1	1	0	0	1



a. 
$$(A + B + C) = (((A+B)')' + C) = ((A'.B')' + C) = (((A'.B')' + C)')' = (((A'.B')')' .C')'$$



**b.** (A. B. C) = 
$$(((A.B)')' \cdot C) = ((A' + B')' \cdot C) = (((A' + B')' \cdot C)')' = (((A' + B')')' + C')'$$

