DIGITAL SYSTEMS LABORATORY WORK MODUL 4 : COMBINATION OF LOGIC GATE ADDITIONAL ASSIGNMENT



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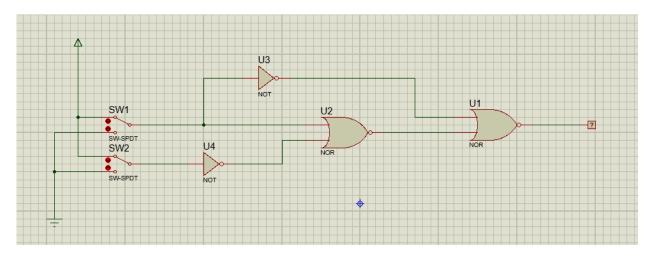
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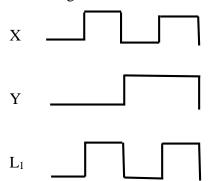
1. Create a logic gate combination as show in figure below!



a. The truth table

X	Y	L_1
0	0	0
1	0	1
0	1	0
1	1	1

b. Time diagram



c. Boolean function:

$$X + Y + A$$

2. Create the logic gate circuit based on the following Boolean function!

$$F = (\overline{A \cdot B} + C) + (\overline{D \cdot E})$$

