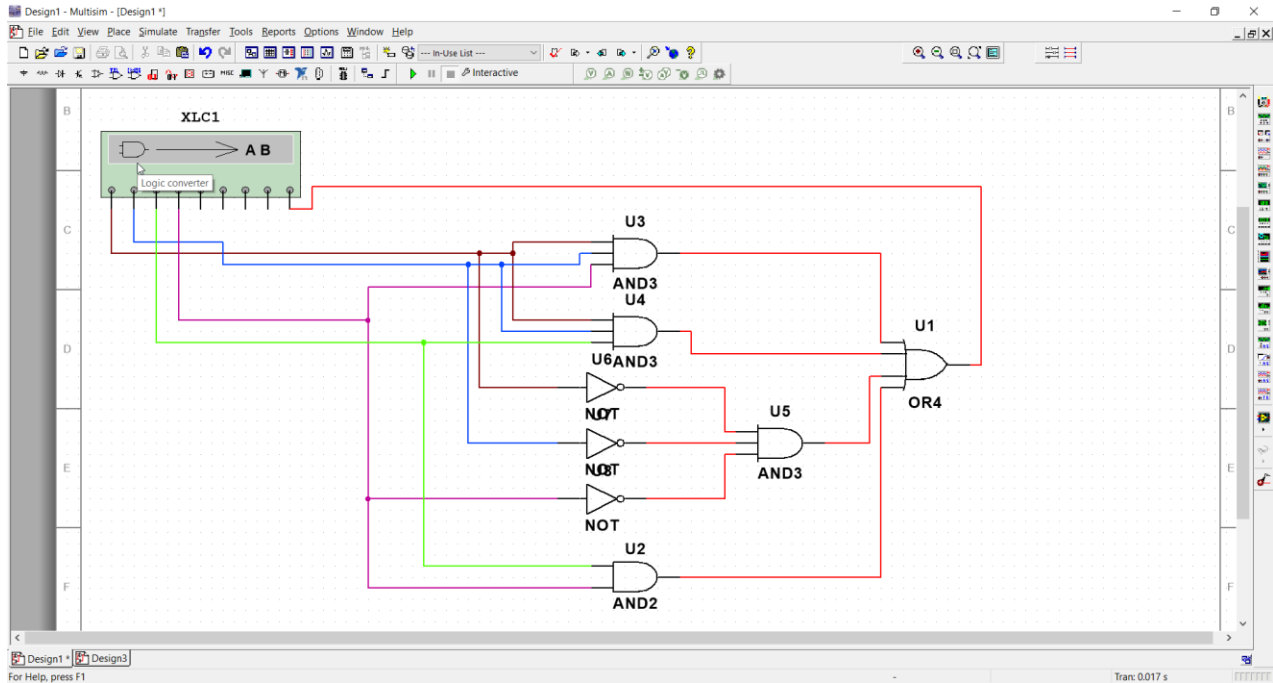


DE LECTURE 7 TASK

إسلام محمد عطية

20220126

$$F = A'B'D' + ABD + ABC + CD$$



Logic converter-XLC1

Out ☐

	A	B	C	D	E	F	G	H
000	0	0	0	0				1
001	0	0	0	1				0
002	0	0	1	0				1
003	0	0	1	1				1
004	0	1	0	0				0
005	0	1	0	1				0
006	0	1	1	0				0
007	0	1	1	1				1
008	1	0	0	0				0
009	1	0	0	1				0
010	1	0	1	0				0
011	1	0	1	1				1
012	1	1	0	0				0
013	1	1	0	1				1
014	1	1	1	0				1
015	1	1	1	1				1

Conversions

☐ \rightarrow $\overline{101}$

$\overline{101} \rightarrow A/B$

$\overline{101} \xrightarrow{\text{SIMP}} A/B$

$A/B \rightarrow \overline{101}$

$A/B \rightarrow$ ☐

$A/B \rightarrow \text{NAND}$

$A'B'D' + ABD + ABC + CD$