DIGITAL SYSTEMS PRACTICUM 4



By:

MOHAMMAD FAQIH EZA 'AMMAR

NIM: L200183178

INFORMATION TECHNOLOGY FACULTY OF COMMUNICATION AND INFORMATICS UNIVERSITY OF MUHAMMADIYAH SURAKARTA

Assignment Prak 4

No 1

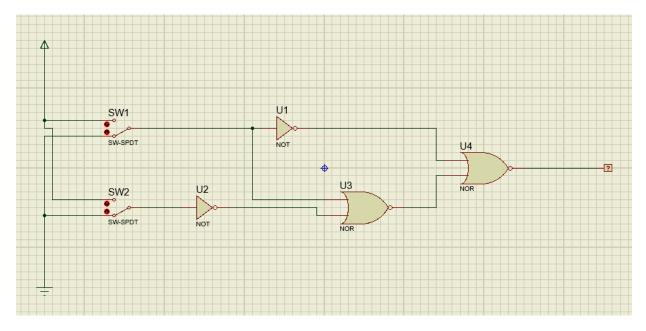


Figure 1.1 – Set of Gate

1. Truth Table

X	Y	F
0	0	0
0	1	0
1	0	1
1	1	1

2. Time Diagram

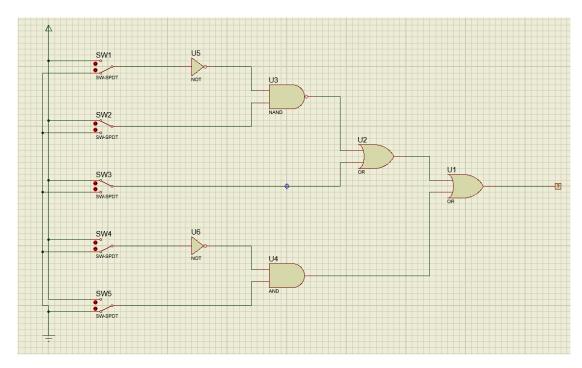


3. Boolean Function

$$F = \neg(\neg X + \neg (X + \neg Y)) = X(X + \neg Y)$$

Assignment Prak 4

No 2



Picture 2.1 - Set of gate for boolean function $F = (\neg (\neg A.B) + C) + (\neg D.E)$