

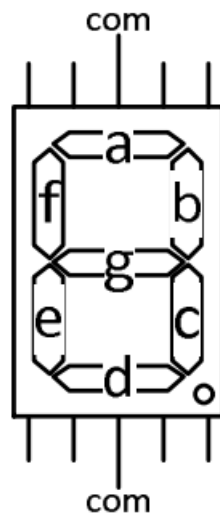
In the name of God

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ID:97213002

Report No:5

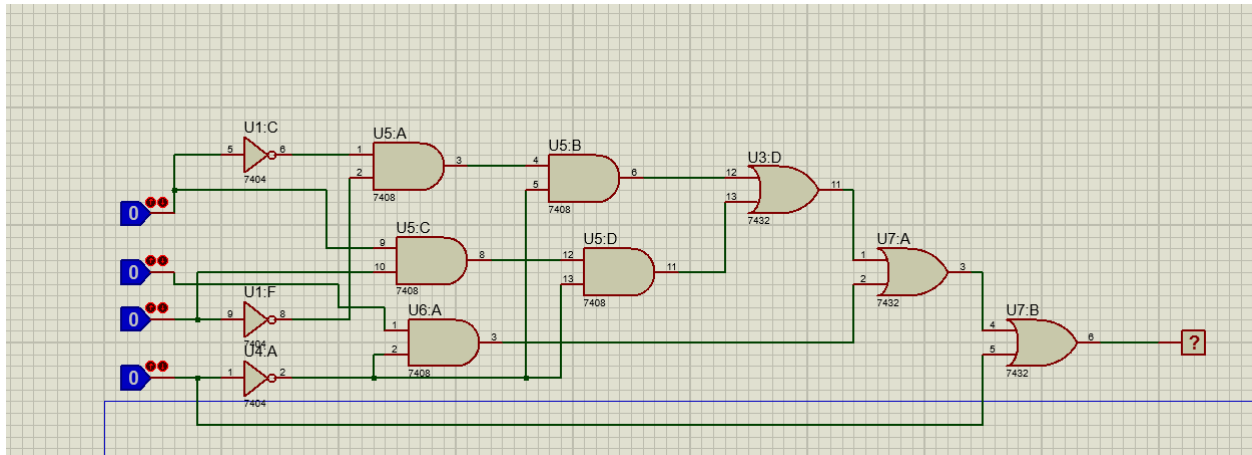
Seven Segment



Function and truth table for turning on ( a ) in seven segment:

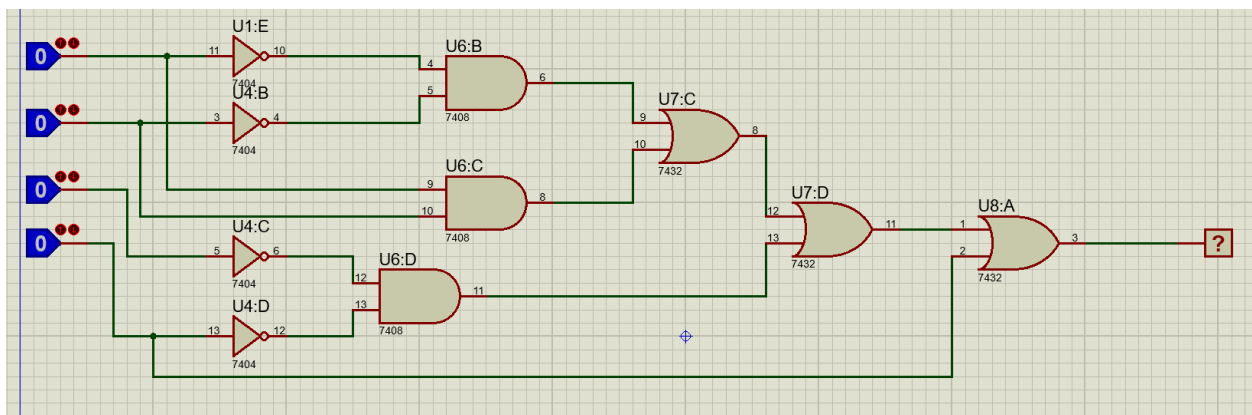
a									
F=m	(0,2,3,5,6,7,8,9)			BA	0,0	0,1	11	10	
	$D+D'C'A'+BD'+AD'C$		DC	0,0	1	0	1	1	
				0,1	0	1	1	1	
				11	*	*	*	*	
				10	1	1	*	*	

Proteus implement:

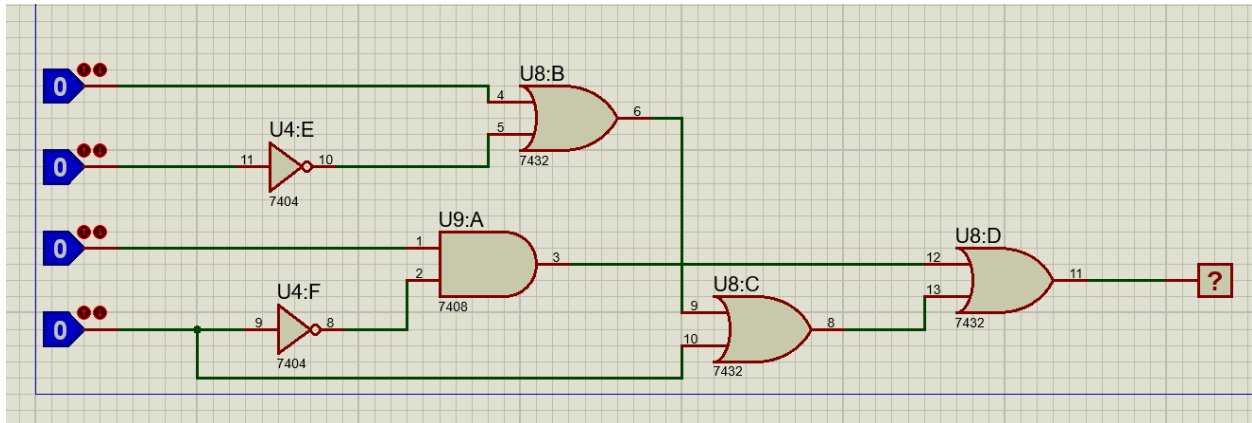


Function and truth table for turning on ( b ) in seven segment:

b									
F=m	(0,1,2,3,4,7,8,9)			BA	0,0	0,1	11	10	
	$D'C' + D + A'B' + AB$	DC	0,0	1	1	1	1		
			0,1	1	0	1	0		
			11	*	*	*	*		
			10	1	1	*	*		

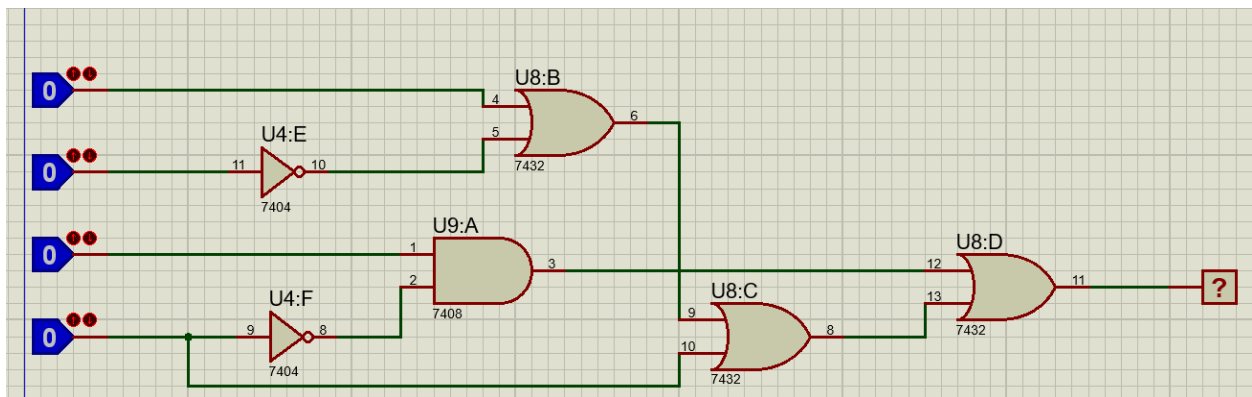


Function and truth table for turning on ( c ) in seven segment:



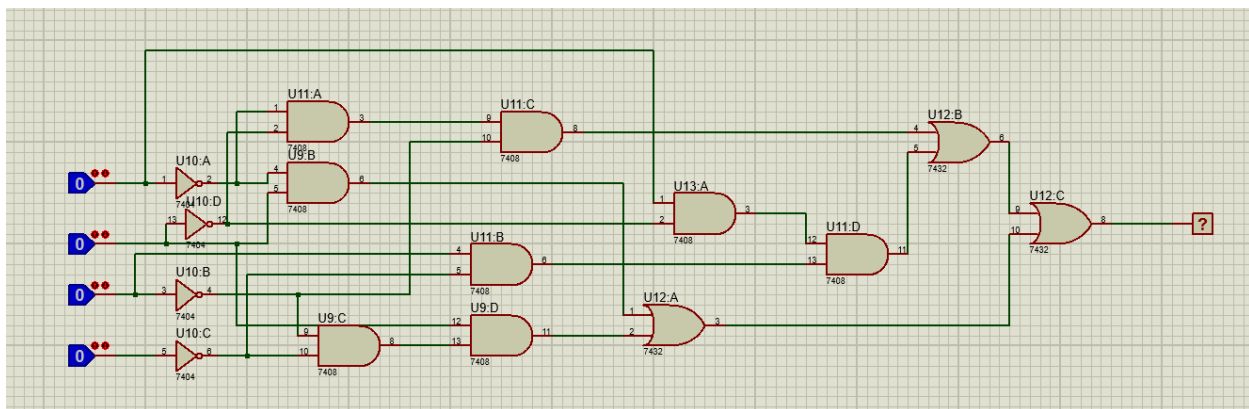
Function and truth table for turning on ( c ) in seven segment:

c									
F=m	(0,1,3,4,5,6,7,8,9)			BA	0,0	0,1	11	10	
	$D + D'C + B' + A$		DC	0,0	1	1	1	0	
				0,1	1	1	1	1	
				11	*	*	*	*	
				10	1	1	*	*	



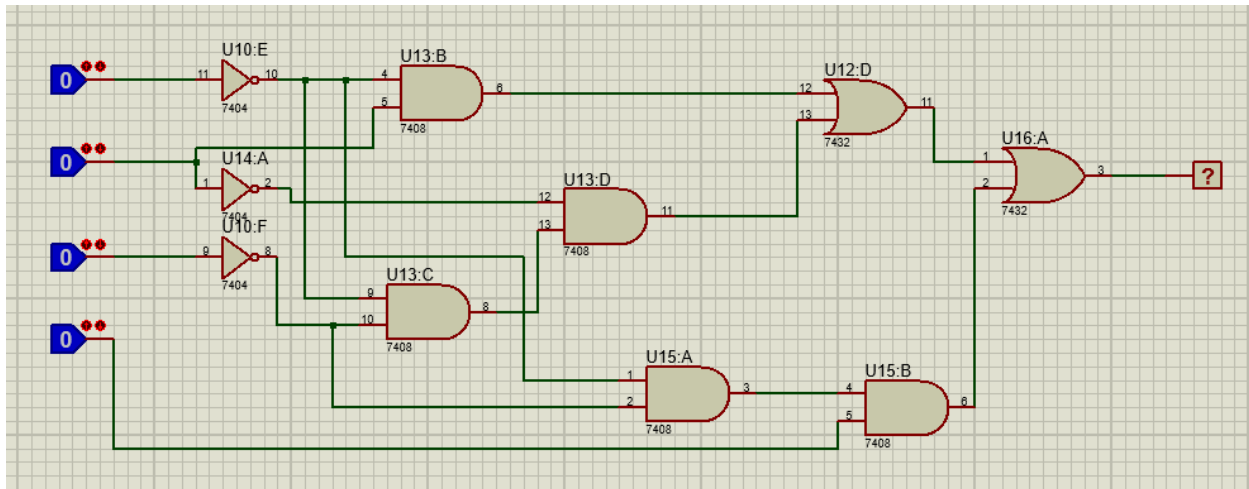
Function and truth table for turning on ( d ) in seven segment:

d								
F=m	(0,2,3,5,6,8)		BA	0,0	0,1	11	10	
	$BA' + BD'C' + B'A'C' + B'AD'C$	DC	0,0	1	0	1	1	
			0,1	0	1	0	1	
			11	*	*	*	*	
			10	1	0	*	*	



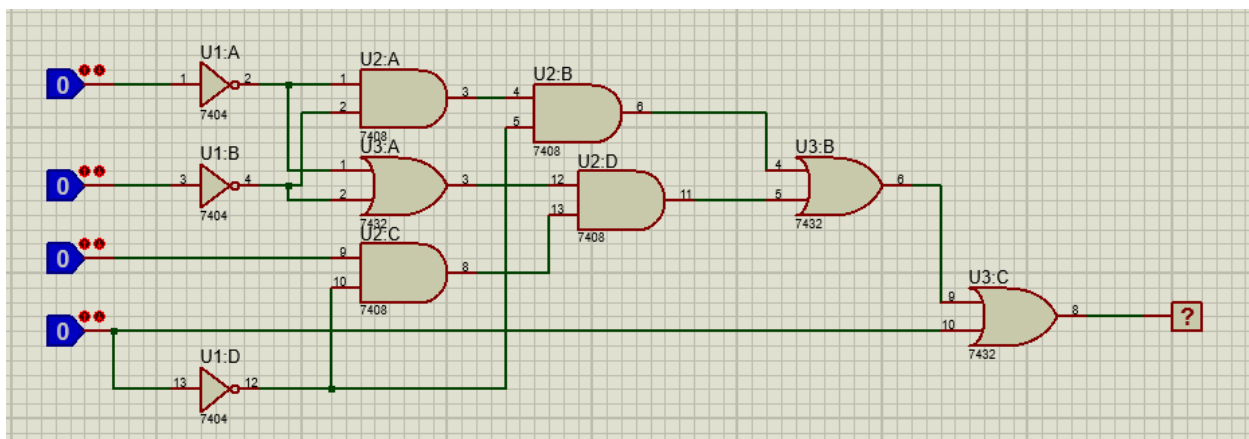
Function and truth table for turning on ( e ) in seven segment:

e								
F=m	(0,2,6,8)		BA	0,0	0,1	11	10	
	$BA' + C'B'A' + DC'A'$	DC	0,0	1	0	0	1	
			0,1	0	0	0	1	
			11	*	*	*	*	
			10	1	0	*	*	



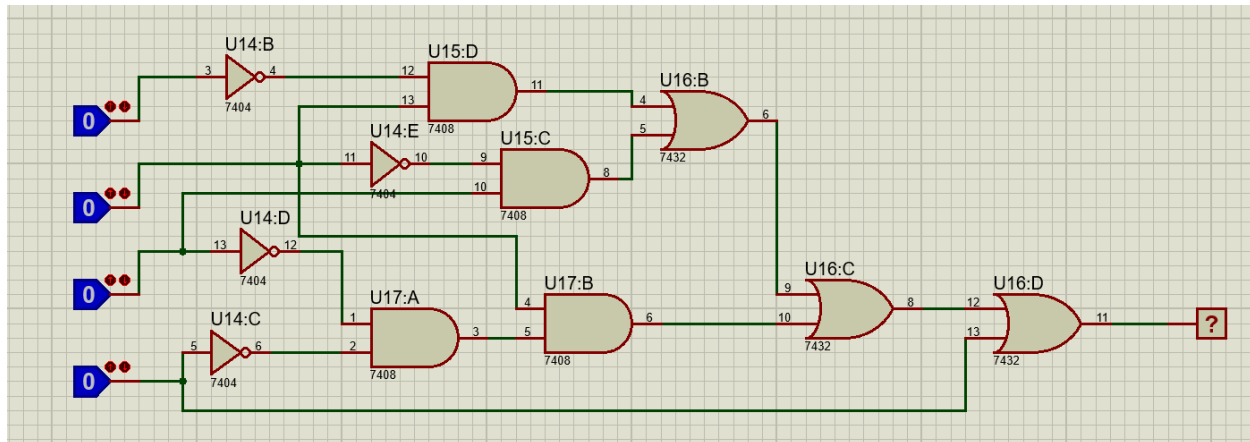
Function and truth table for turning on ( f ) in seven segment:

f									
F=m	(0,4,5,6,8,9)			BA	0,0	0,1	11	10	
	D+B'A'D'+D'C(B'+A')		DC	0,0	1	0	0	0	
				0,1	1	1	0	1	
				11	*	*	*	*	
				10	1	1	*	*	



Function and truth table for turning on ( g ) in seven segment:

g									
F=m	(2,3,4,5,6,8,9)			BA	0,0	0,1	11	10	
	$D+CB'+BA'+D'C'B$		DC	0,0	0	0	1	1	
				0,1	1	1	0	1	
				11	*	*	*	*	
				10	1	1	*	*	



Github : <https://github.com/aminallahrabi/circuit-sevensegment>