Hamna Qasim

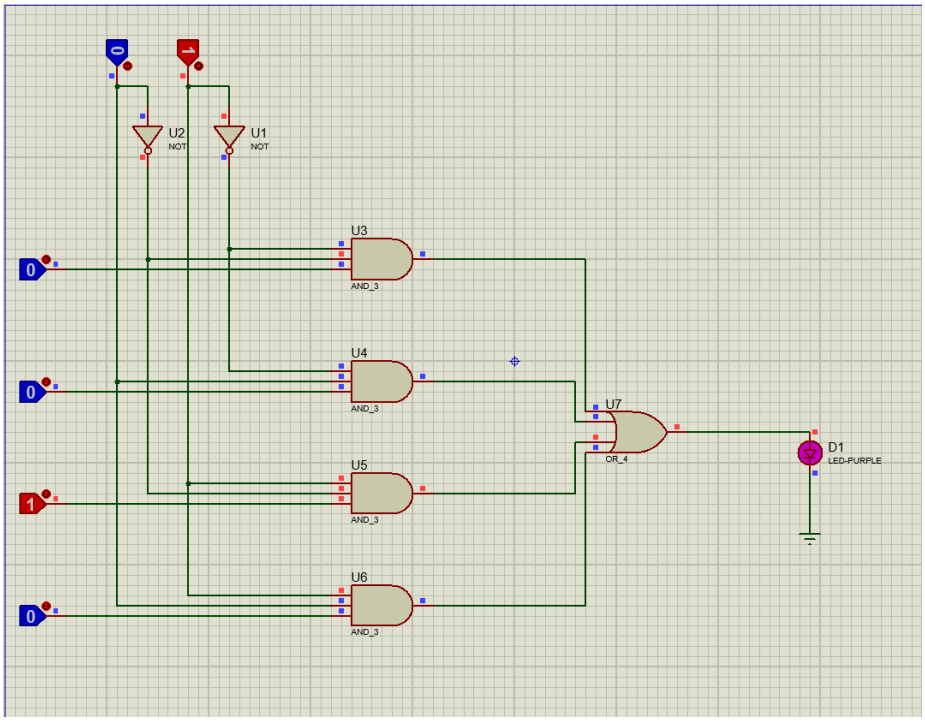
55194

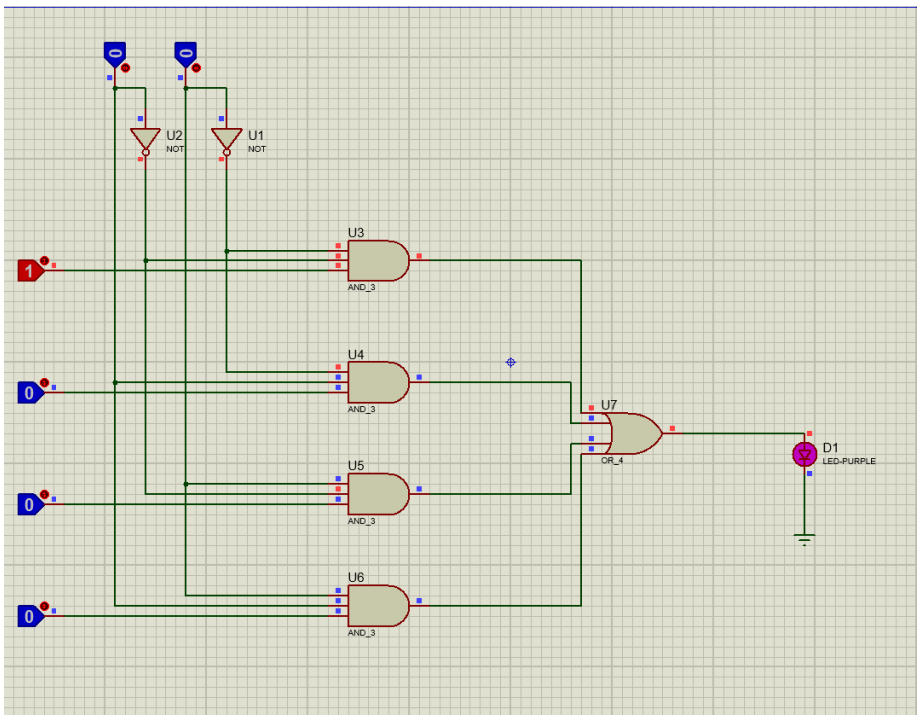
Computer Architecture Lab Week#5

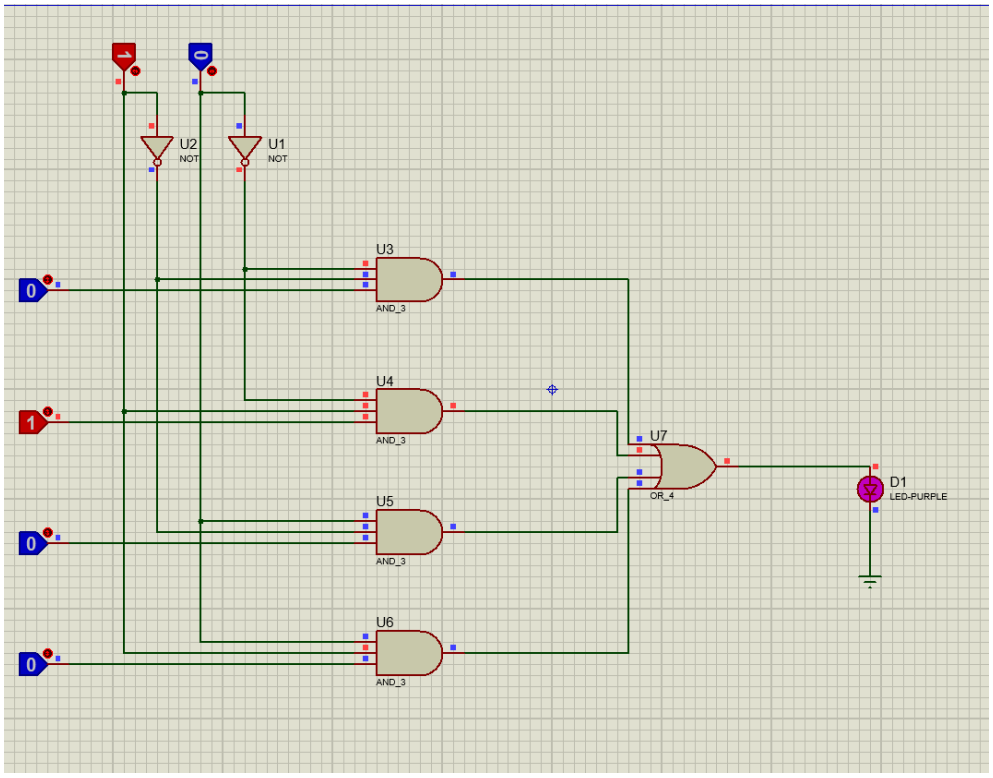
Lab Tasks

Task1:

4 by 1 Multiplexer



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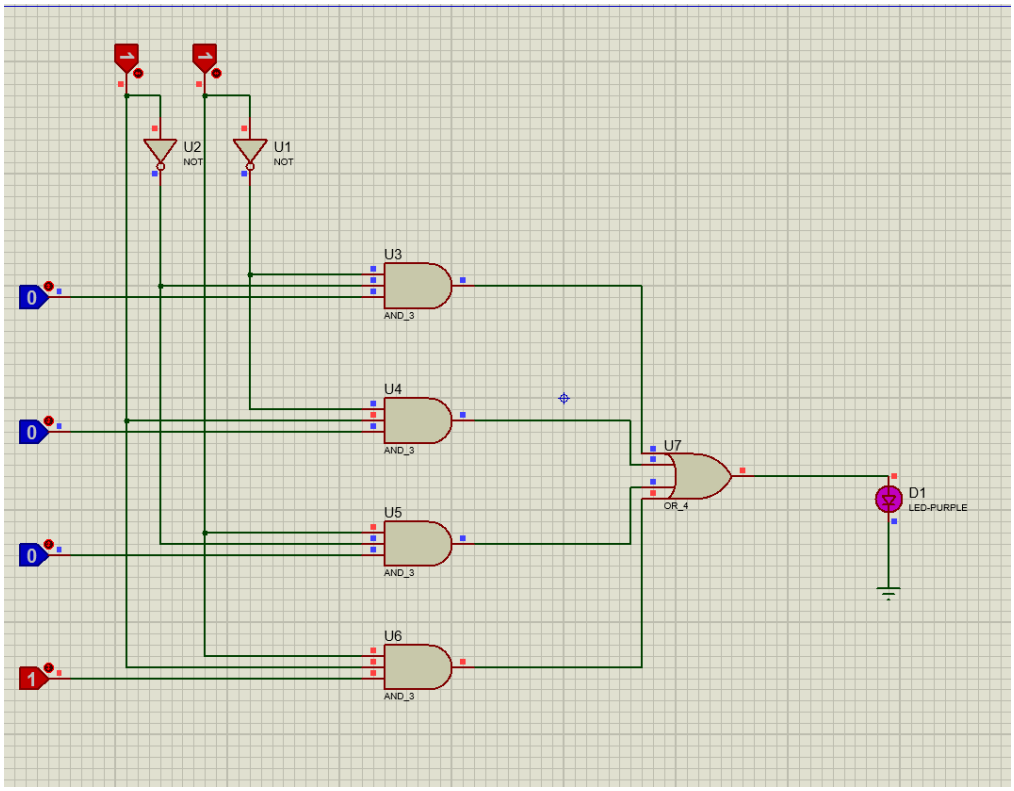
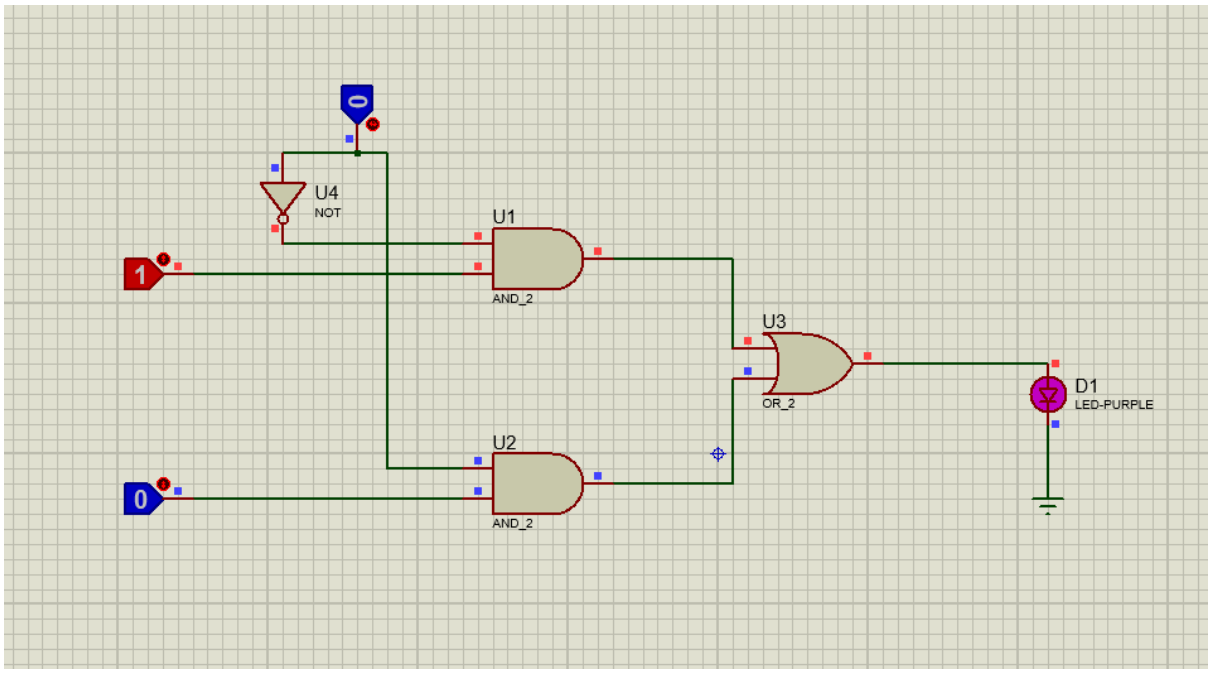
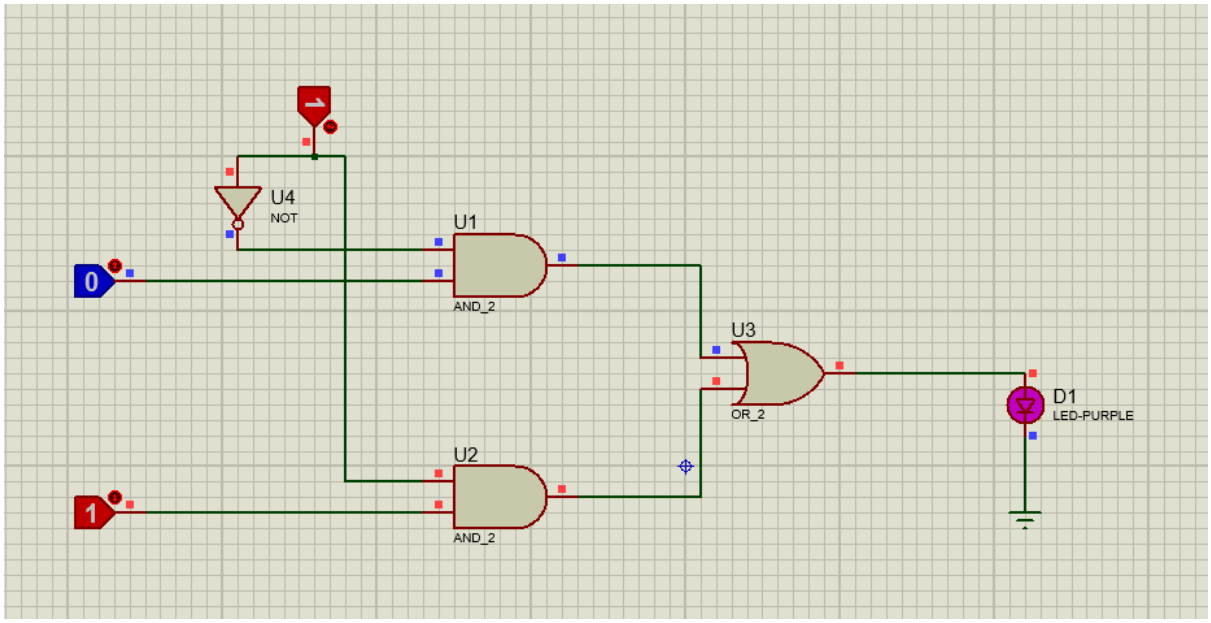
0
U2
NOT
U1
NOT
U3
AND_3
0
U4
AND_3
1
U7
OR_4
D1
LED-PURPLE
U5
AND_3
0
U6
AND_3
0


1
1
U2
NOT
U1
NOT
U3
AND_3
0
U4
AND_3
0
U7
OR_4
D1
LED-PURPLE
U5
AND_3
0
U6
AND_3
1

Task2:

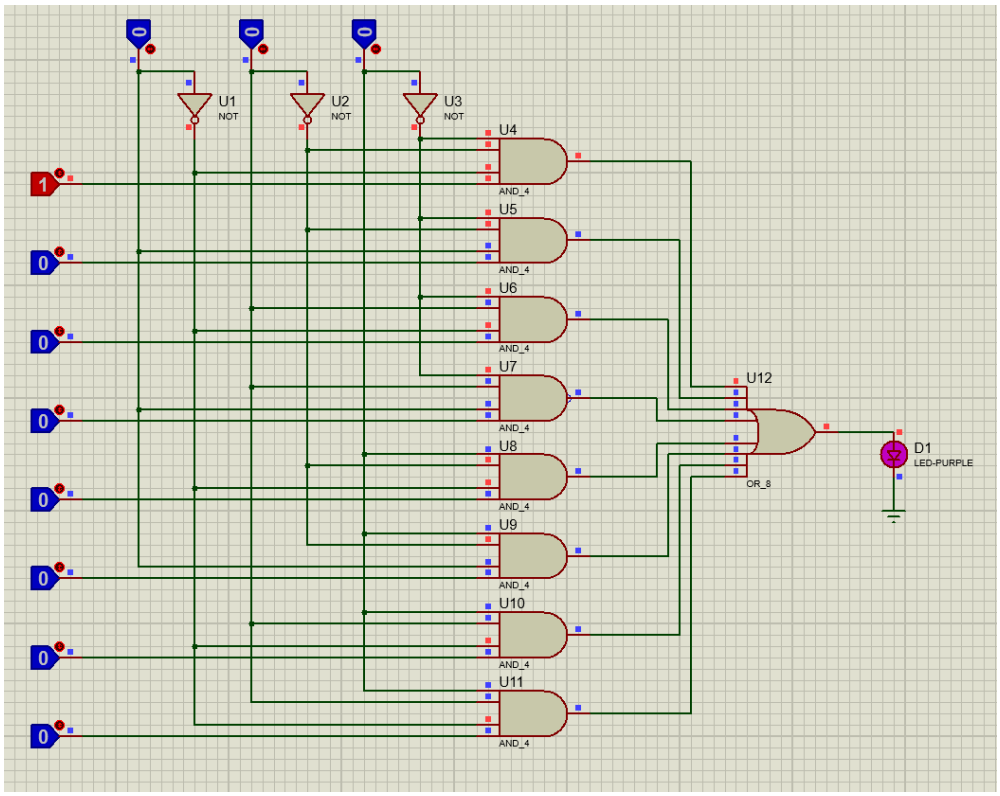
2 by 1 Multiplexer

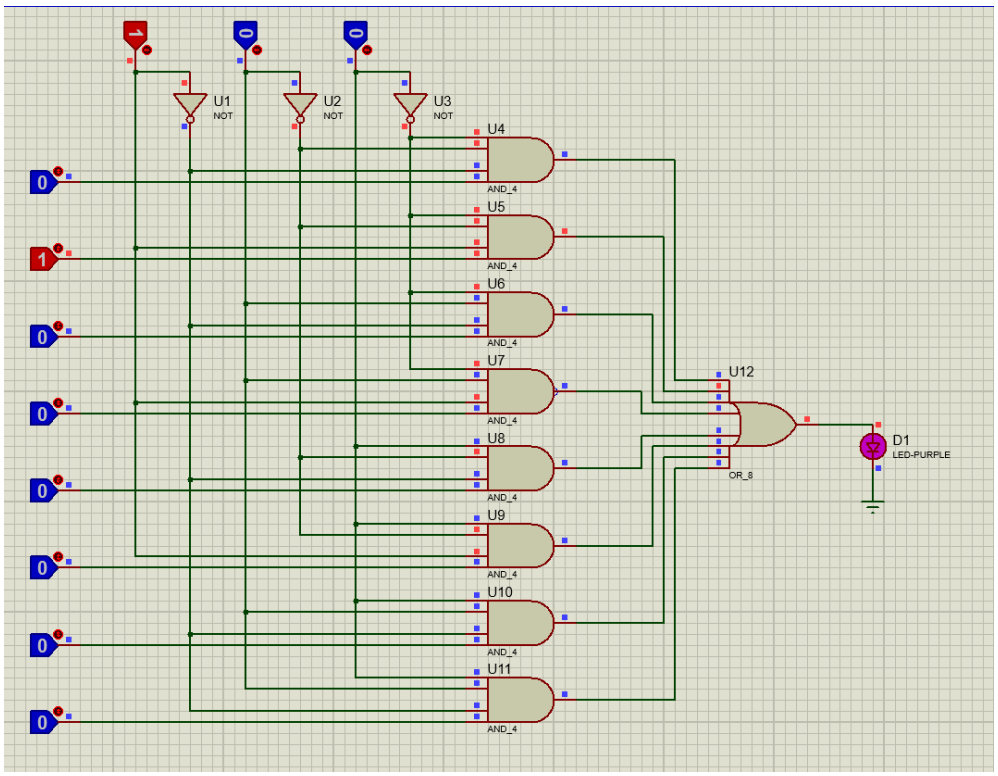


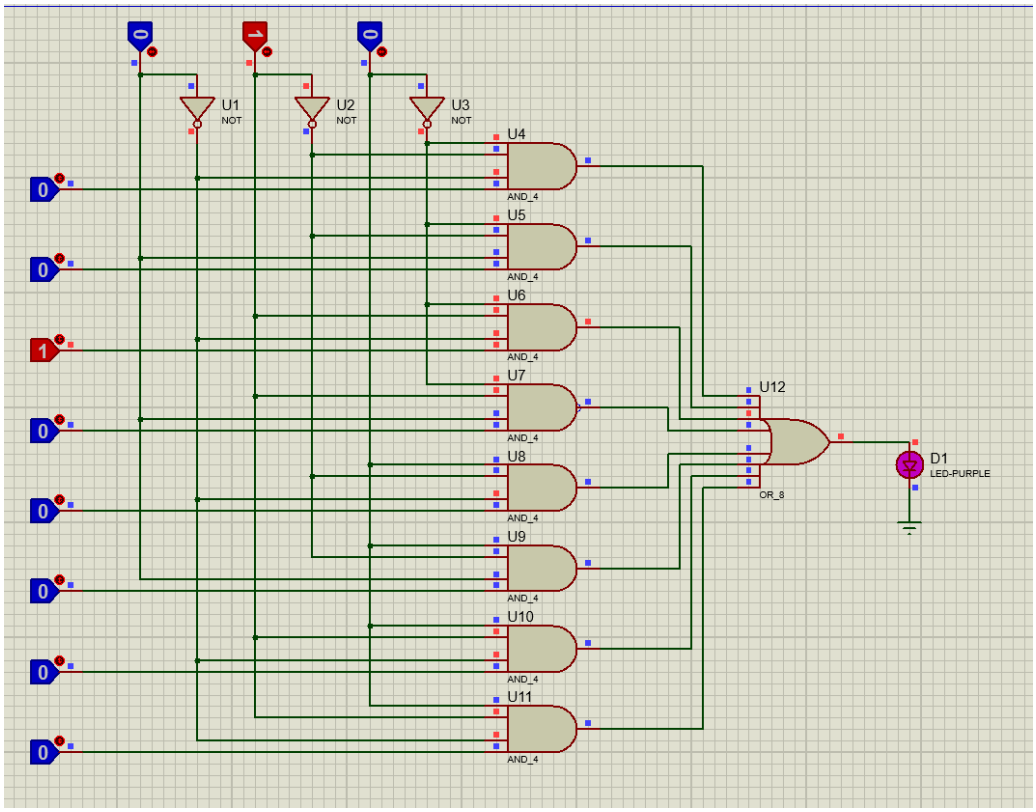


Task3:

8 by 1 Multiplexer



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U2
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U3
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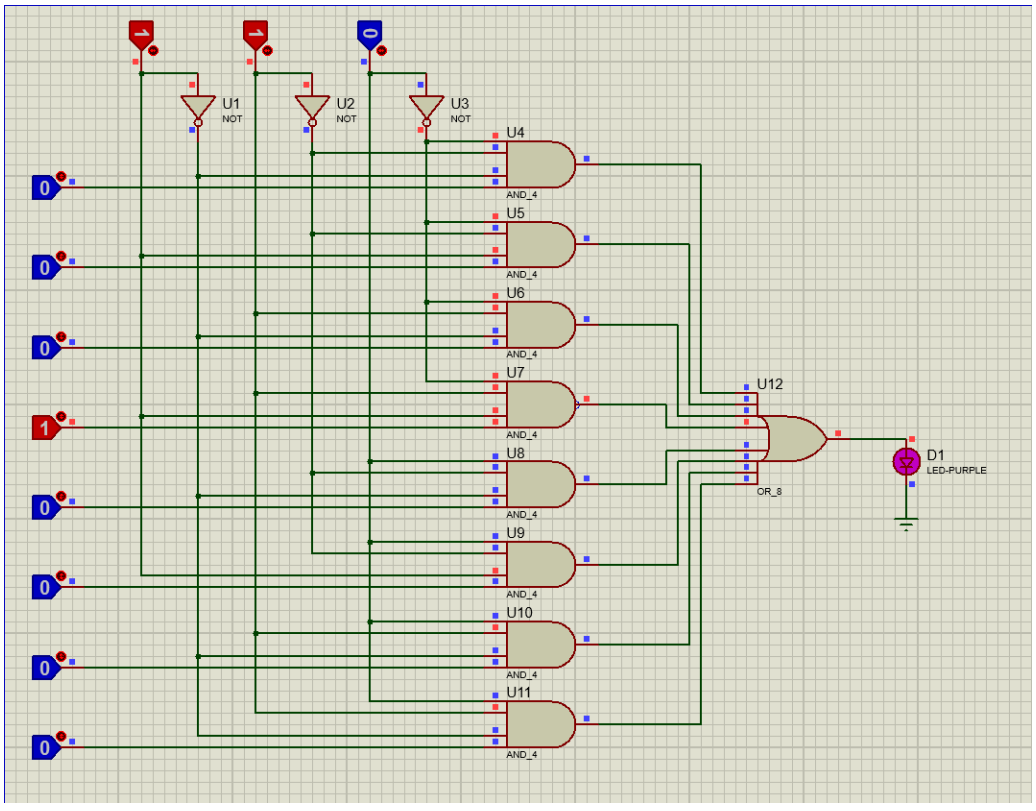
U4
AND_4
U5
AND_4
U6
AND_4
U7
AND_4
U8
AND_4
U9
AND_4
U10
AND_4
U11
AND_4
U12
OR_8
D1
LED-PURPLE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U6
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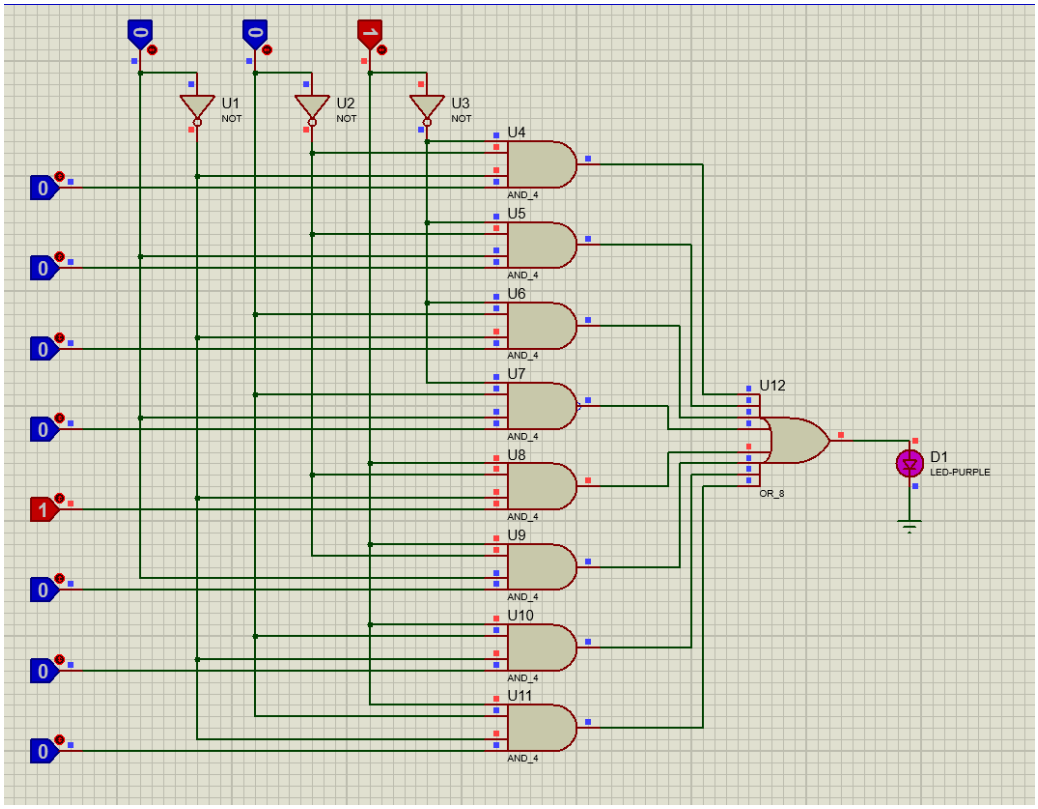
U7
AND_4
U8
AND_4
U9
AND_4
U10
AND_4
U11
AND_4
U12
OR_8
D1
LED-PURPLE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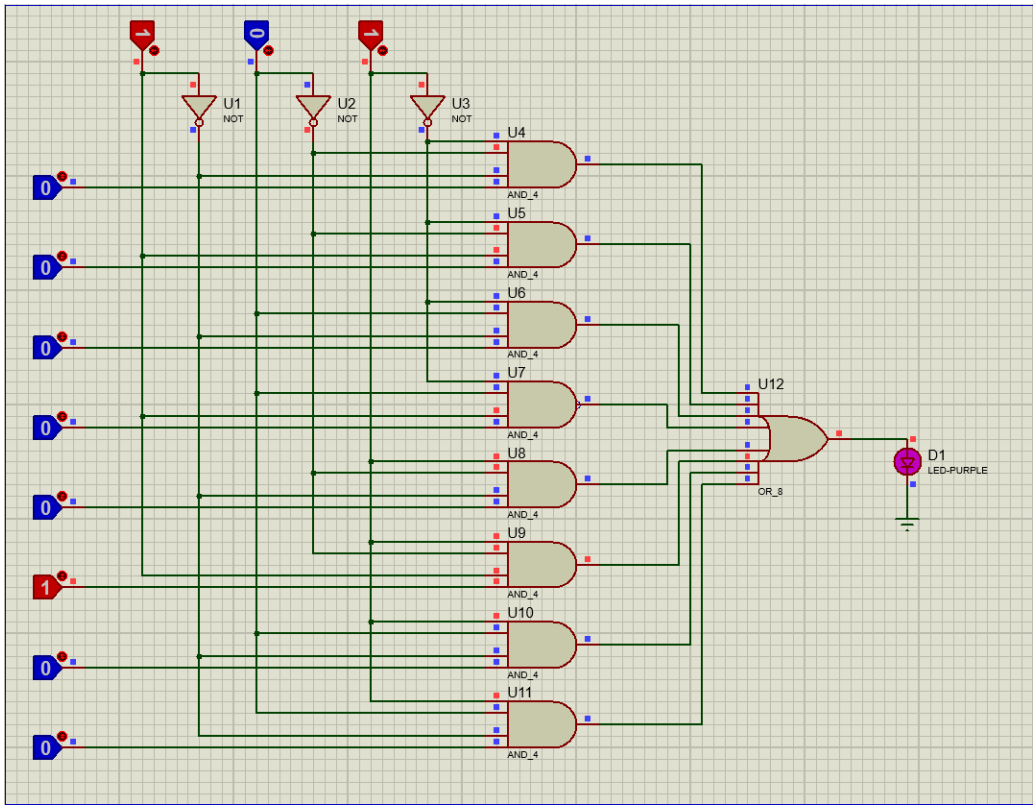
AND_4
U12
OR_8
D1
LED-PURPLE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AND_4
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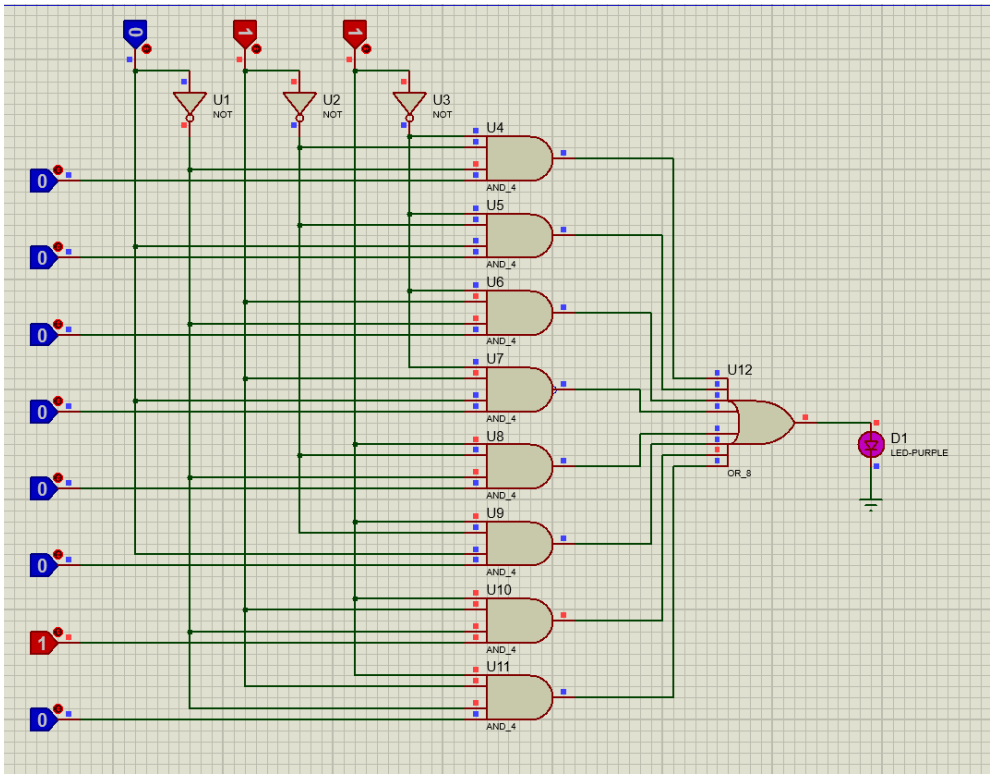
AND_4
U11
AND_4
U12
OR_8
D1
LED-PURPLE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OR_8
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LED-PURPLE
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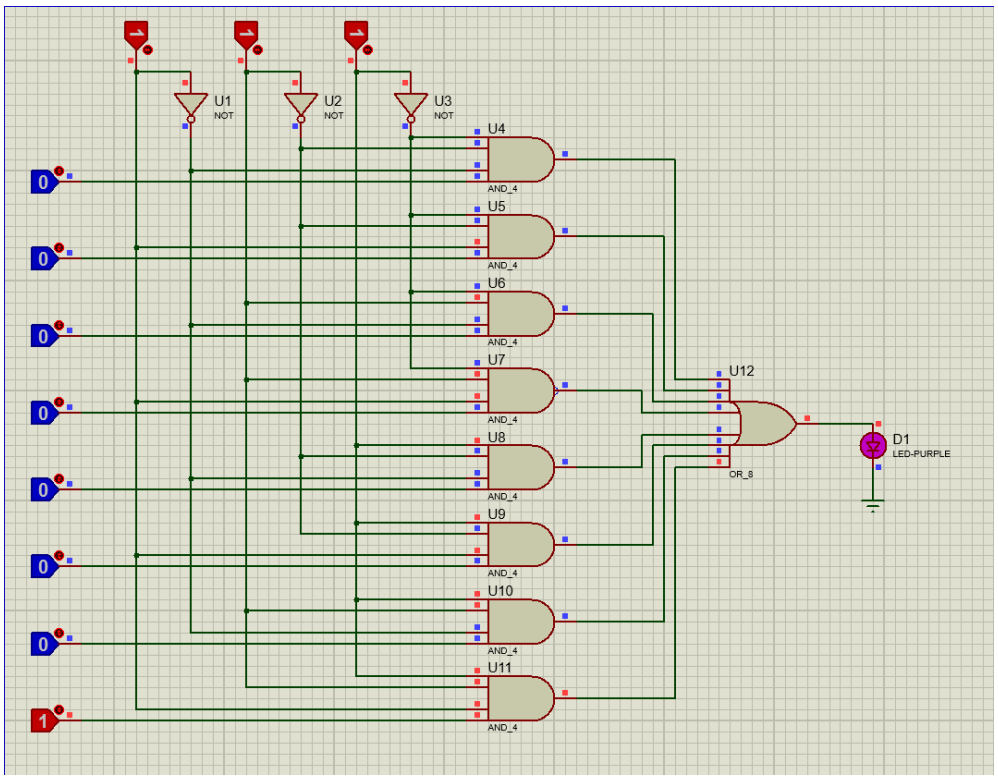
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AND_4
U9
AND_4
U10
AND_4
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AND_4
U12
OR_8
D1
LED-PURPLE
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