Lab Report 8

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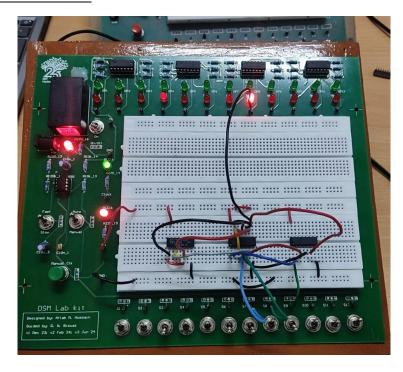
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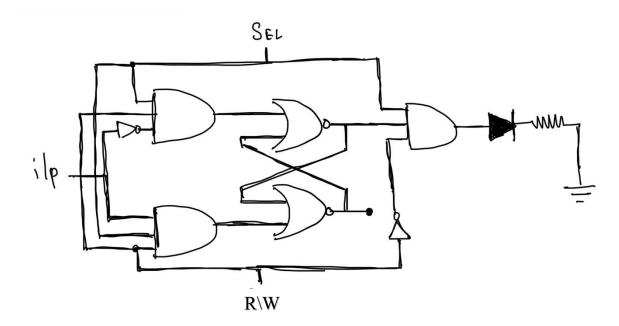
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• Objective:

To simulate the working of RAM by building a binary cell circuit.

- Electronic Components Required:
 - o 7402 2-input NOR IC
 - o 7411 3-input AND IC
 - o 7404 NOT IC
 - o Digital Test Kit
- Reference Circuit:-





• Procedure:

- 1. Ensure that the input pins IP1-12 and output LEDs LG1-12 and LR1-12 are working.
- 2. Assemble the circuit as per the given circuit diagram.
- 3. Give all possible combinations of inputs to the Input, Select and R/W pins and observe the outputs.
- 4. Verify the working and the functions of the circuit.

• Observation:

The function table of the circuit is:

Select	Read/Write	<u>Function</u>
0	X	0
1	0	Retains the previous output
1	1	Follows the input

• Conclusion:

The binary cell circuit has been assembled and its working has been analyzed.

• <u>TinkerCAD Simulation:</u>

https://www.tinkercad.com/things/8r1jbnDYzYz-dsm-lab-8?sharecode=5niQHlrQpLhAuHNuhbLKkAQfob_OeXhgNv0VL1mx1M

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