**FULL SUBTRACTOR**

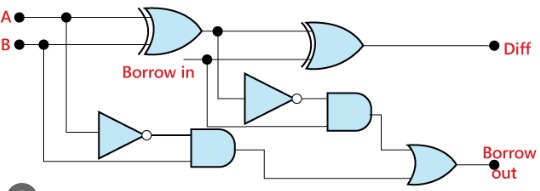
**EXP NO: 31**

**AIM:** To design and implement full subtractor using Logisim simulator.

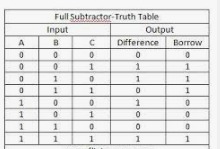
**ALGORITHM:**

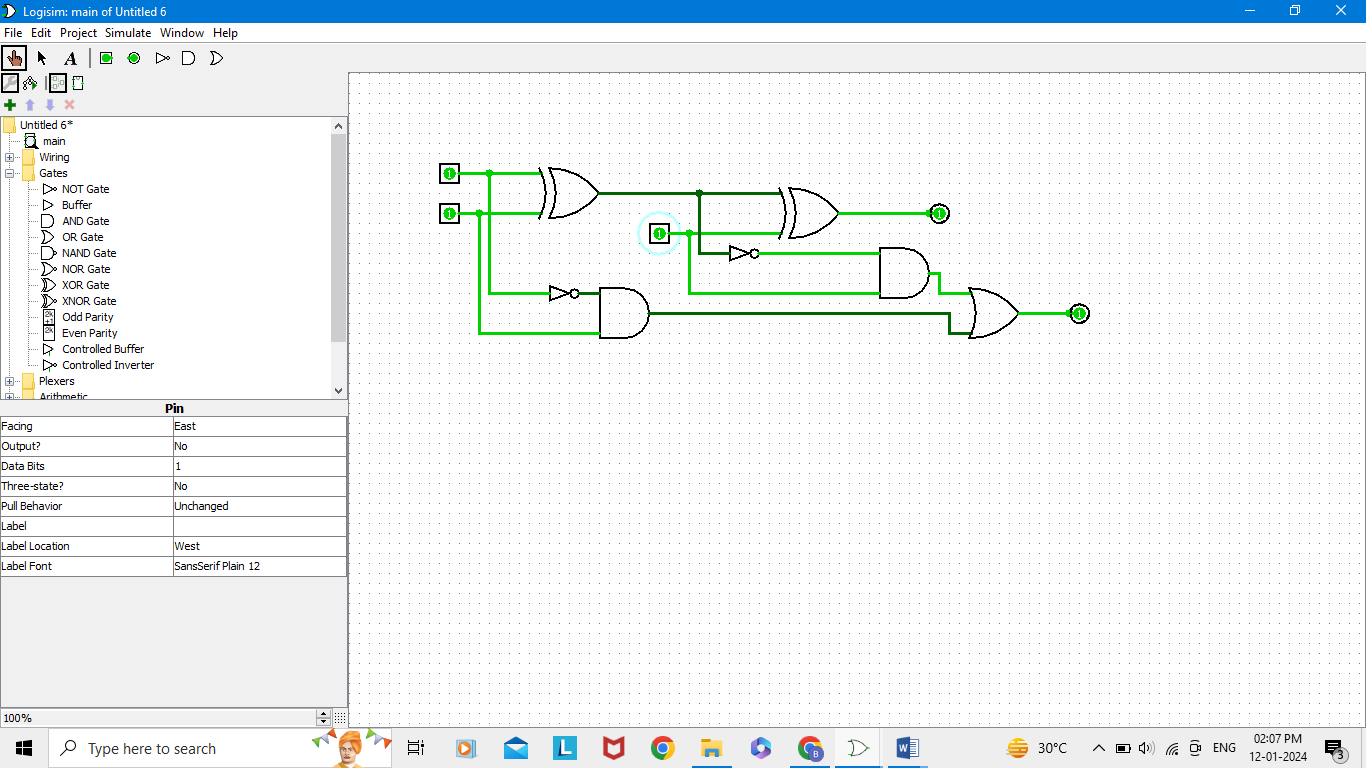
1. Connect two inputs to the X-OR gate and one input to AND gate.
2. Connect those inputs to all other gates.
3. Start the connection on AND, OR and X-OR gates, finish it reaching the designated inputs.
4. Connect the output to the gates
5. Check and verify the truth table accordingly.

**DIAGRAM:**



**TRUTH TABLE:**



**OUTPUT:**

**RESULT:** The implementation of full subtractor using Logisim simulator was executed successfully.