

## 24. FULL SUBTRACTOR

EXP.NO: 24

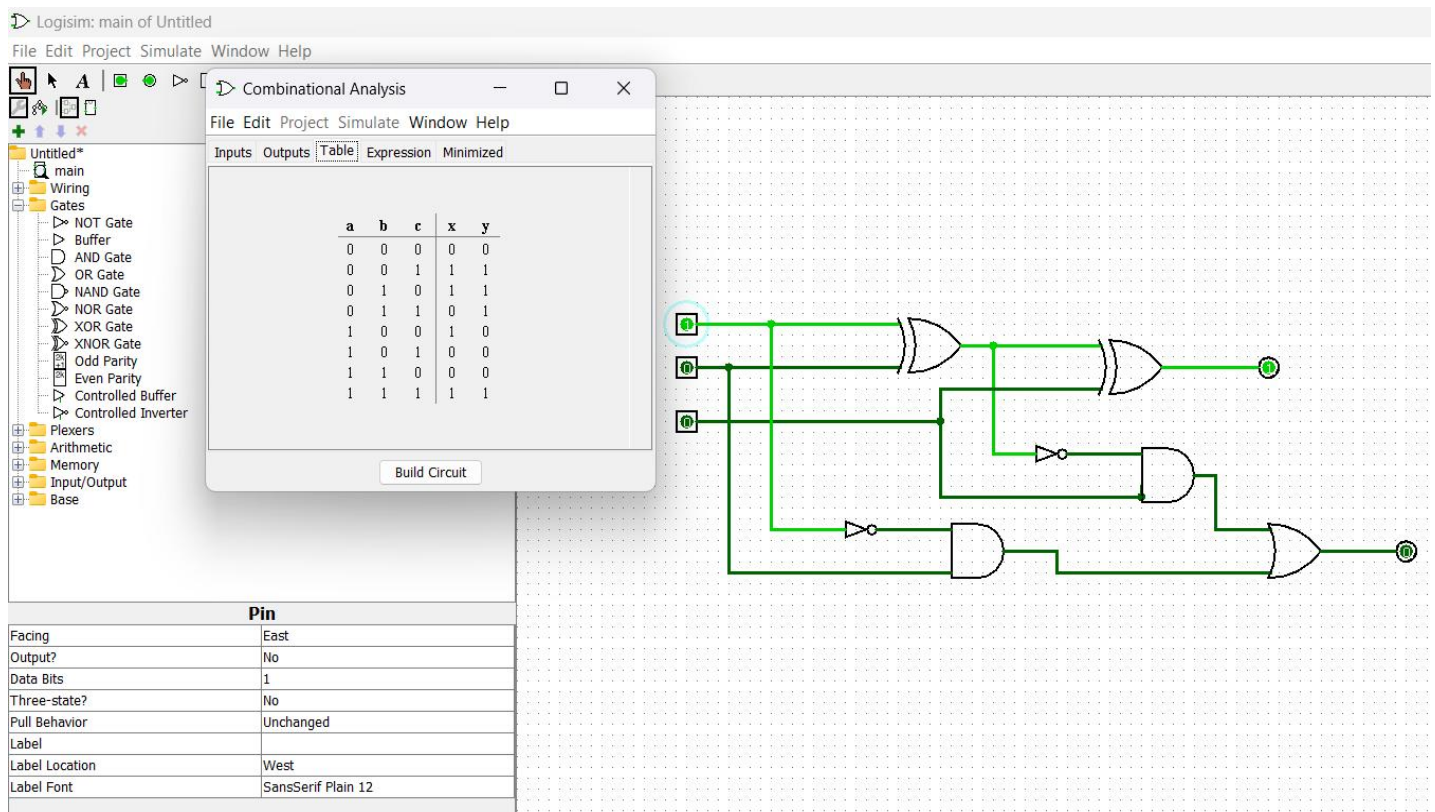
AIM: To design and implement the full subtractor using Logisim simulator.

### PROCEDURE:

- 1) Pick and place the necessary gates.
- 2) Insert 3 inputs into the canvas.
- 3) Connect the inputs to the XOR gate, AND gate and OR gate.
- 4) Insert 2 outputs into the canvas.
- 5) Make the connections using the connecting wires.
- 6) Verify the truth table.

### TRUTH TABLE:

a	b	c	x	y
0	0	0	0	0
0	0	1	1	1
0	1	0	1	1
0	1	1	0	1
1	0	0	1	0
1	0	1	0	0
1	1	0	1	0
1	1	1	1	1



RESULT: Thus full subtractor has been implemented successfully using logisim simulator.