AIM:

To design and implement the two bit half subtractor Using Logisim simulator.

PROCEDURE:

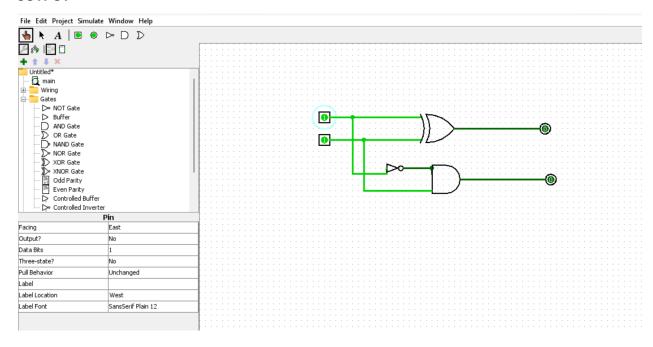
- 1) Pick and place the necessary gates.
- 2) Insert 2 inputs into the canvas.
- 3) Connect the inputs to the OR gate, AND gate and NOT gate.
- 4) Insert2 outputs into the canvas.
- 5)
 Make the connections using the connecting wires.
- 6) Verify the truth table.

TRUTH TABLE:

Diff=A'B+AB'

Borrow = A'B

OUTPUT



RESULT: Thus 2-bit half subtractor has been designed and implemented successfully using logisim simulator