TWO BIT HALF SUBTRACTOR

EXP.NO: 22

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) Insert 2 outputs into the canvas.

5) Make the connections using the connecting wires.

6) Verify the truth table.

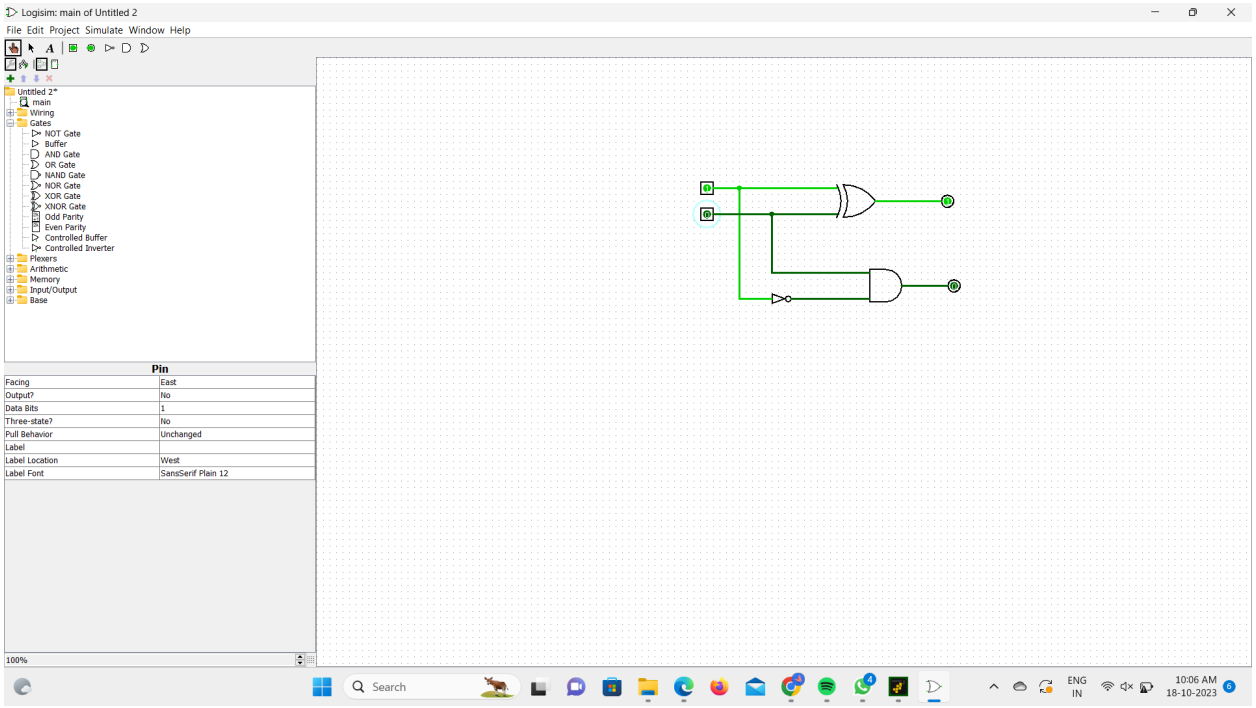
TRUTH TABLE:

A	B	Diff	Borrow
0	0	0	0
0	1	1	1
1	0	1	0
1	1	0	0

Diff=A'B+AB'

Borrow = A'B

OUTPUT



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