FULL SUBTRACTOR

EXP.NO: 24

AIM:

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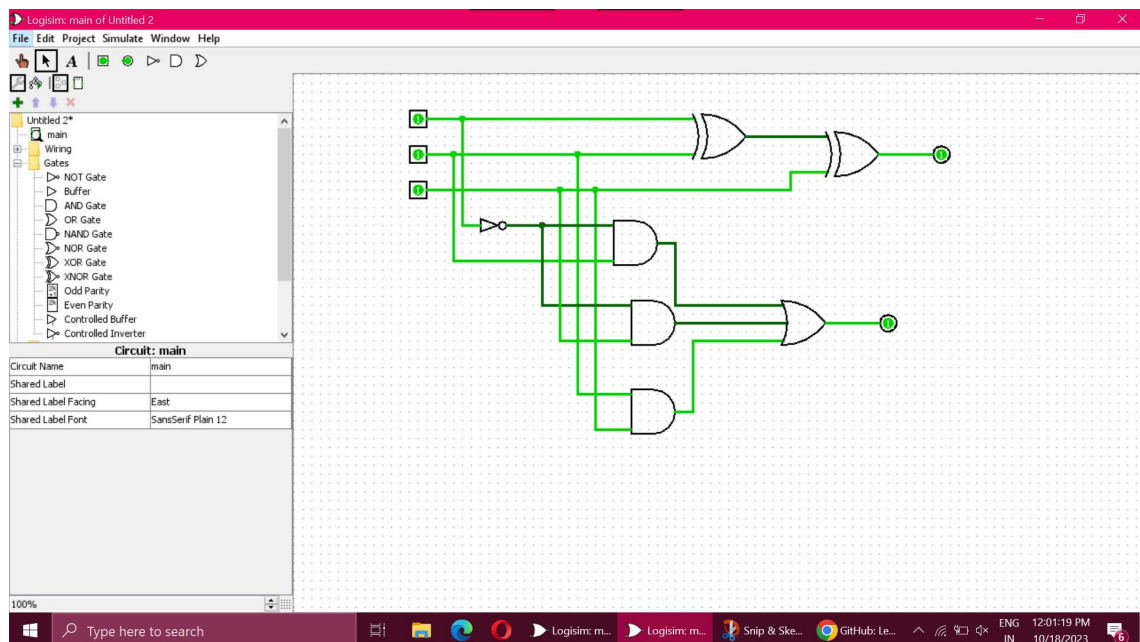
PROCEDURE:

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:

Diff=(A ⊕ B) ⊕ 'Borrowin'

Borrow=A'.B + (A ⊕ B)'

OUTPUT

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