

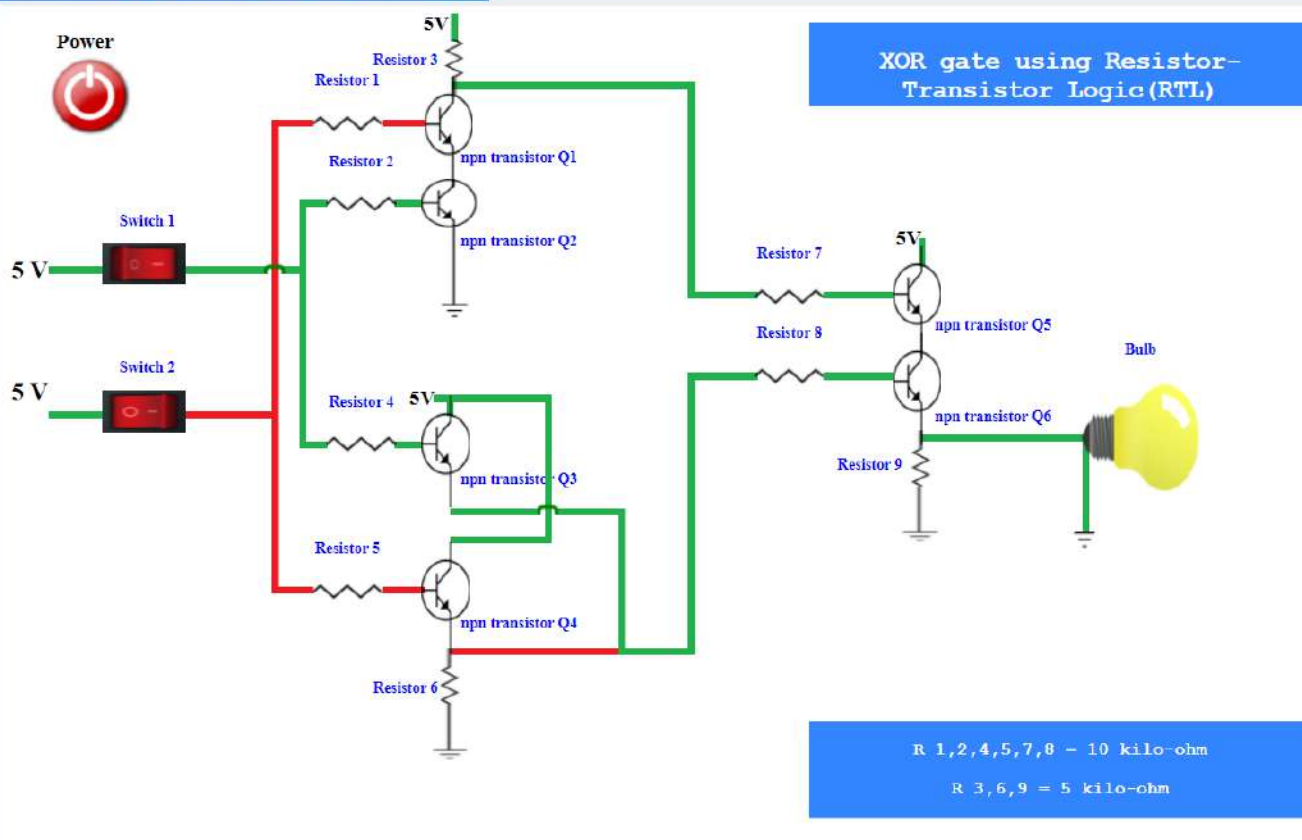


Name: Aashish Kumar

Roll 44

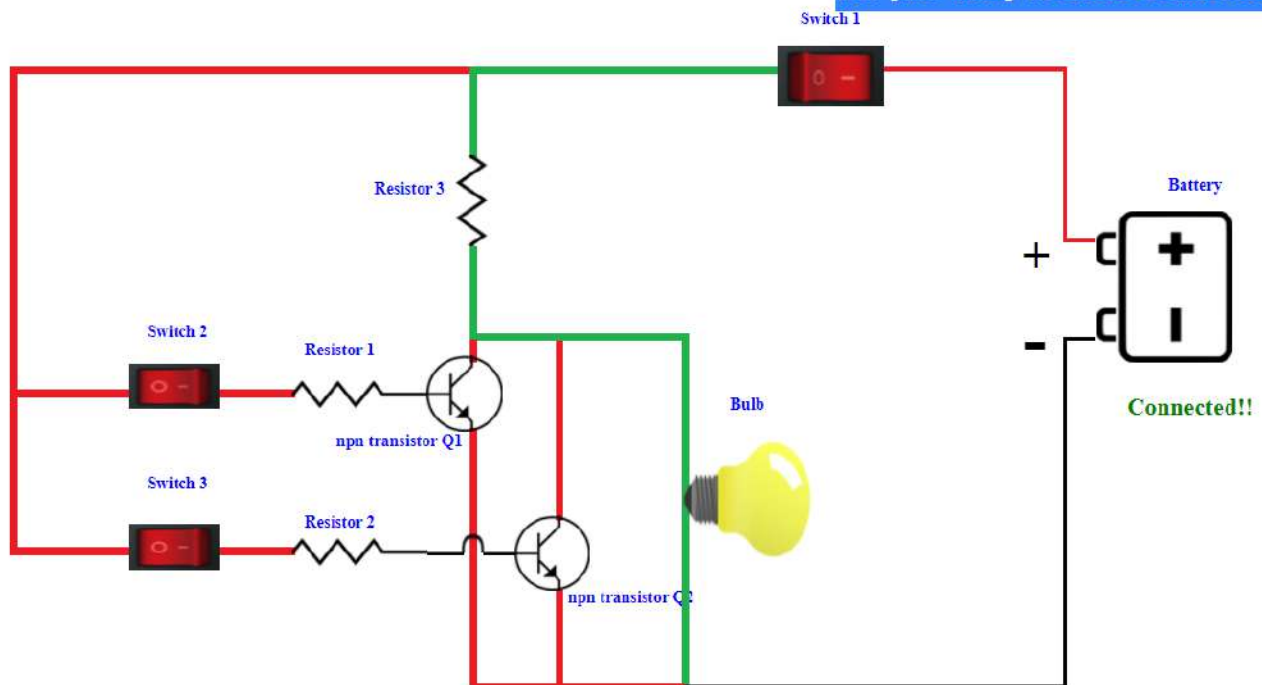
No:

Experiment to perform XOR gate on kit



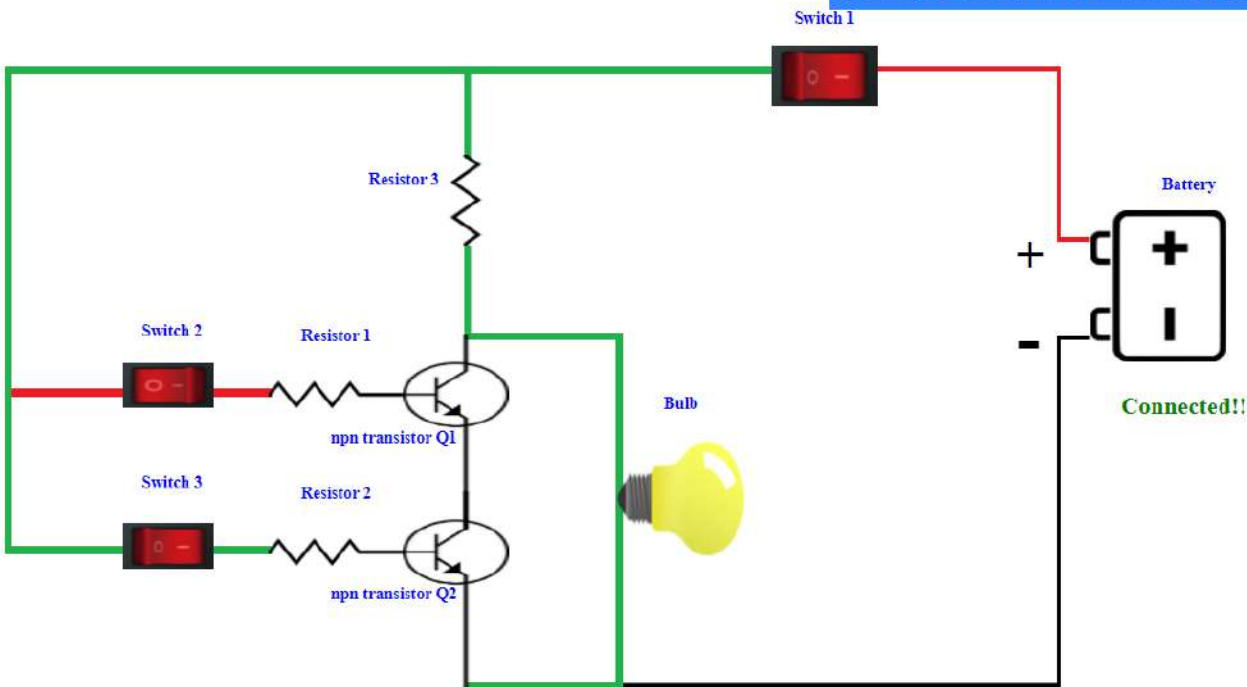
Experiment to perform NOR gate on kit

NOR gate using Resistor-Transistor Logic (RTL)



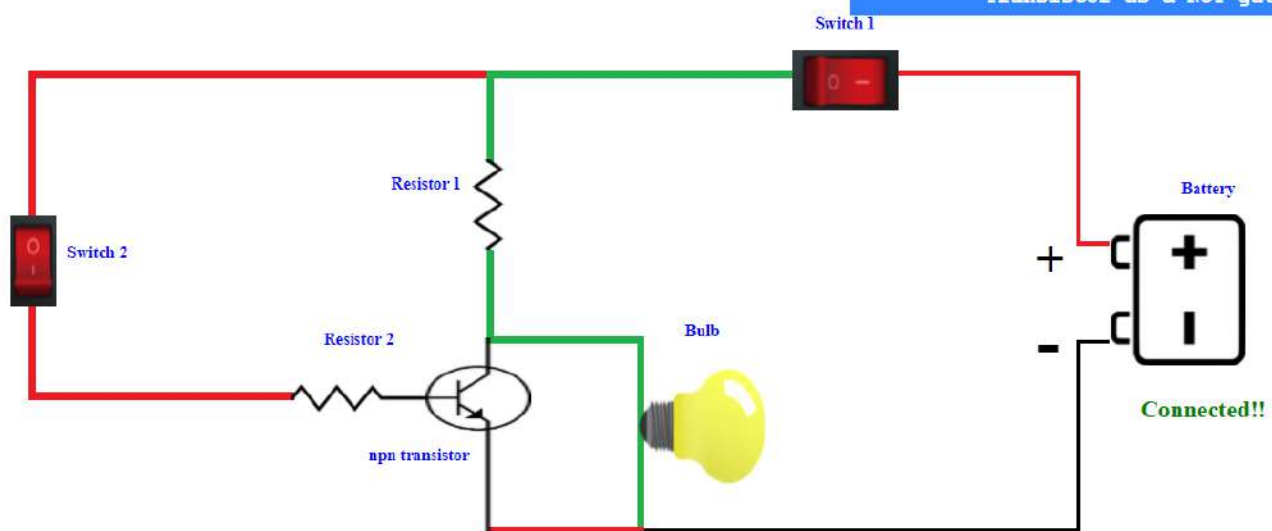
Experiment to perform NAND gate on kit

NAND gate using Resistor Transistor Logic(RTL)



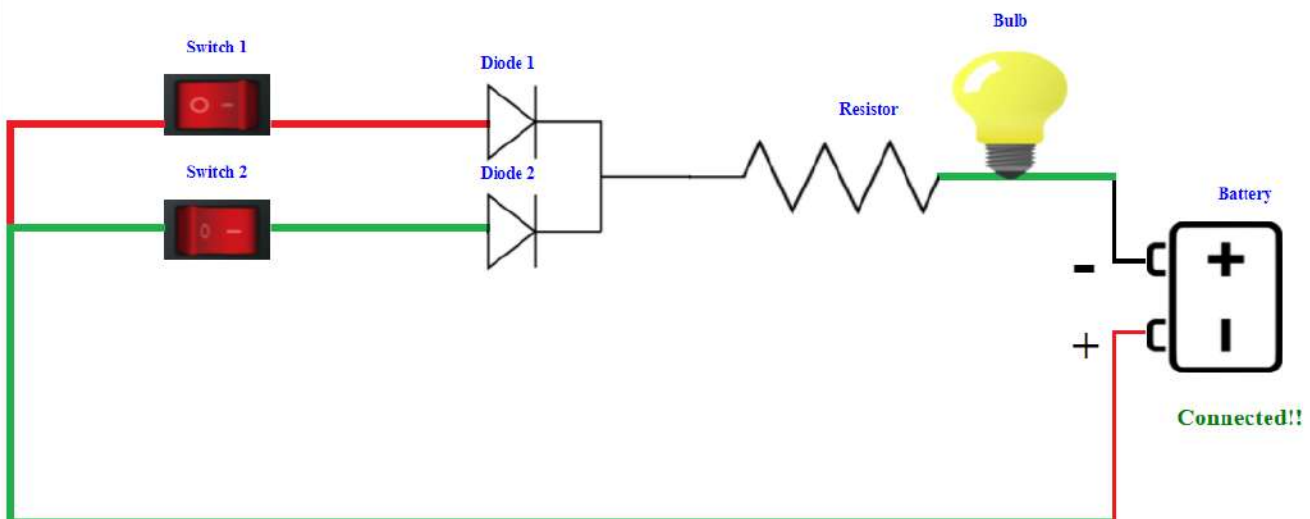
Experiment to perform NOT gate on kit

Transistor as a NOT gate



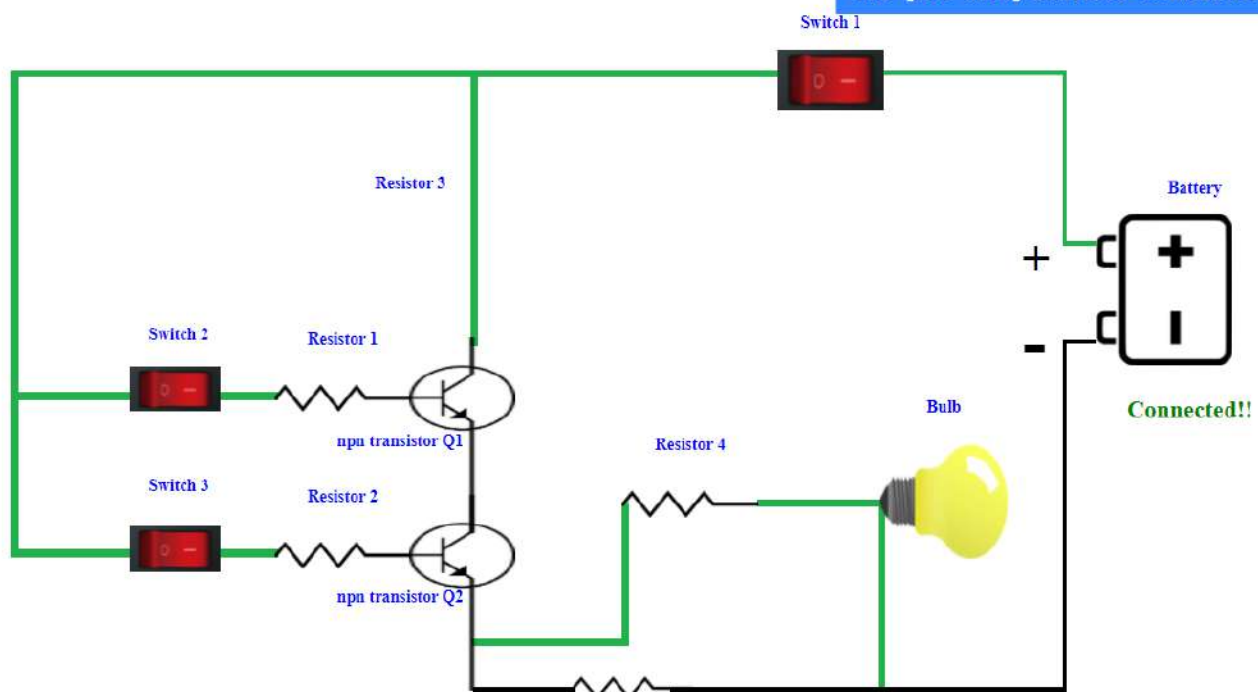
Experiment to perform OR gate on kit

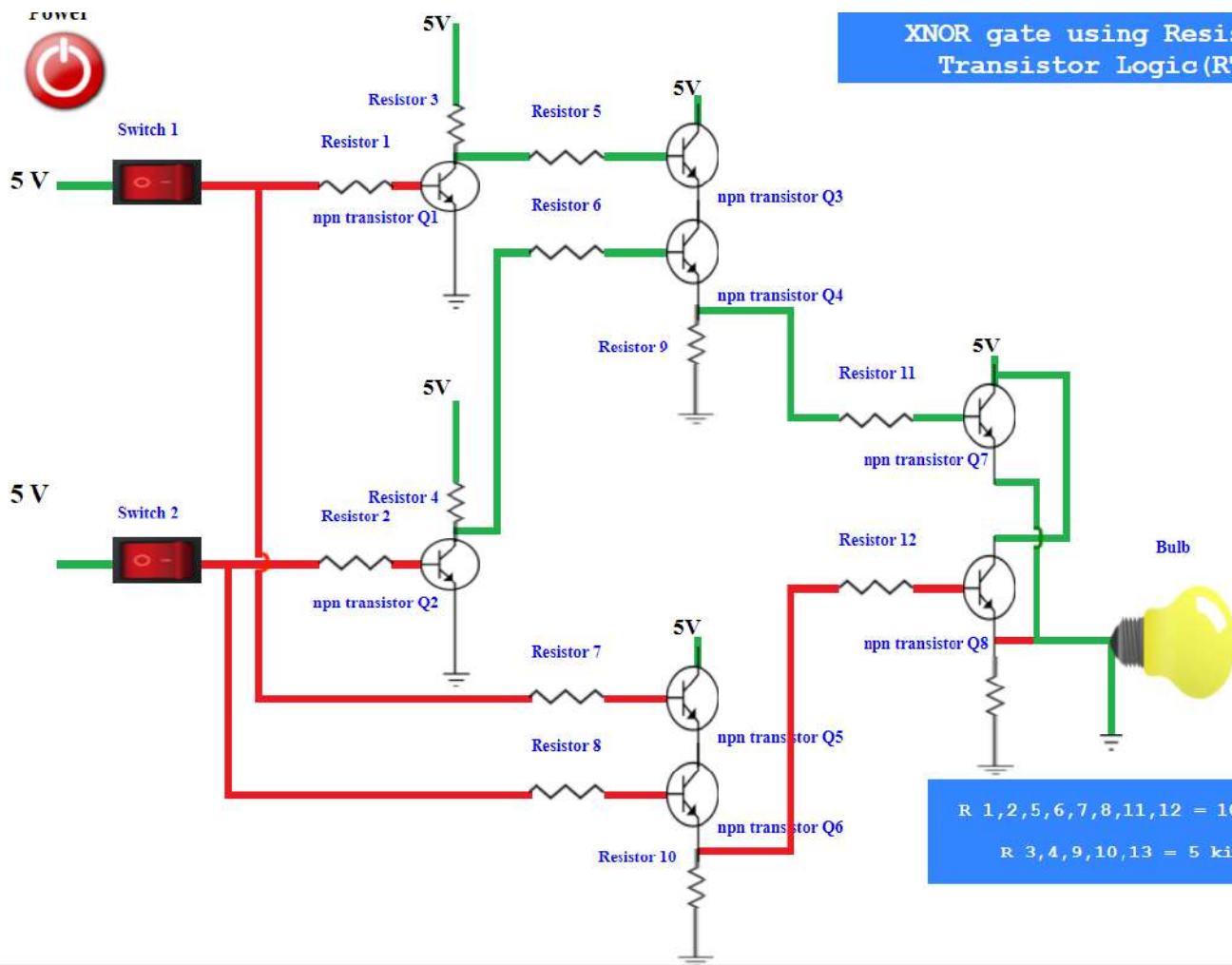
OR logic implementation using DRL (Diode Resistance Logic)



Experiment to perform AND gate on kit

AND gate using Resistor-Transistor Logic (RTL)



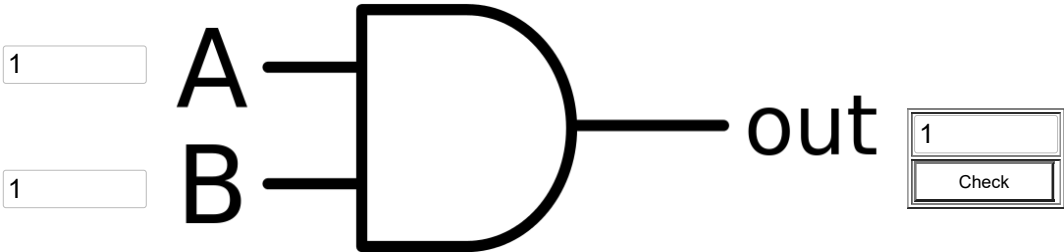


XNOR gate using Resistor-Transistor Logic (RTL)

R 1,2,5,6,7,8,11,12 = 10 kilo-ohm
R 3,4,9,10,13 = 5 kilo-ohm

INSTRUCTIONS

Verification of truth table for AND gate



TRUTH TABLE

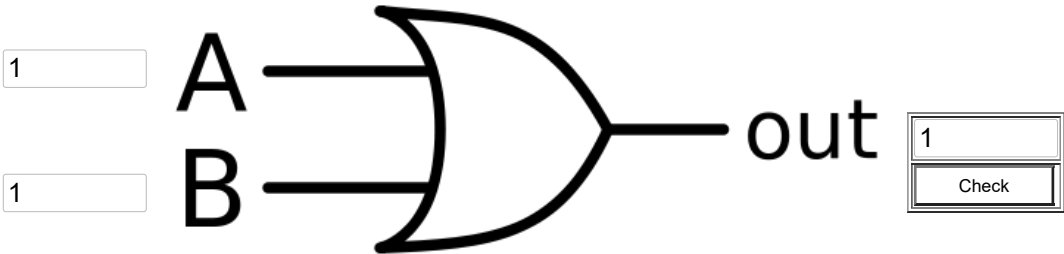
Print

Serial No.	A	B	Output	Remarks
1	1	0	0	Correct
2	0	1	0	Correct
3	0	0	0	Correct
4	1	1	1	Correct

Reset

INSTRUCTIONS

Verification of truth table for OR gate



TRUTH TABLE

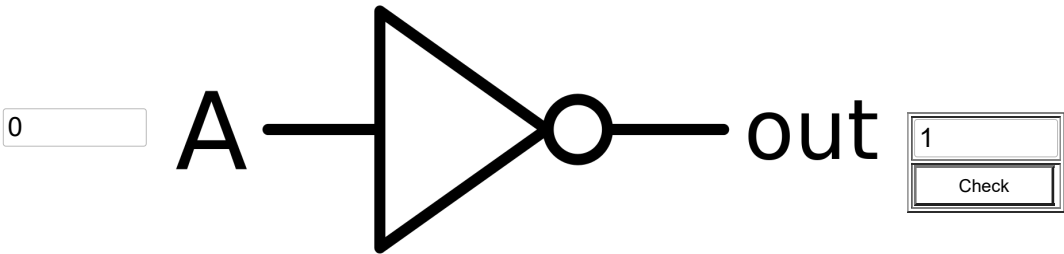
Print

Serial No.	A	B	Output	Remarks
1	1	0	1	Correct
2	0	1	1	Correct
3	0	0	0	Correct
4	1	1	1	Correct

Reset

INSTRUCTIONS

Verification of truth table for NOT gate



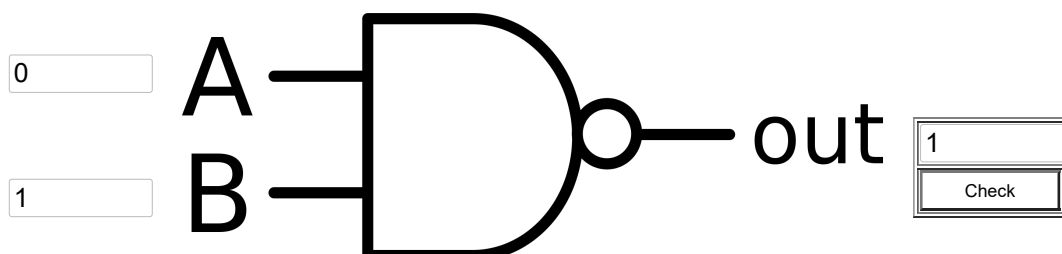
TRUTH TABLE

Print

Serial No.	A	Output	Remarks
1	1	0	Correct
2	0	1	Correct

Reset

Verification of truth table for NAND gate

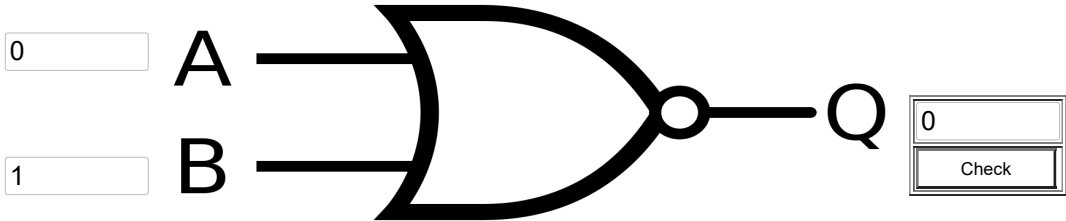


TRUTH TABLE				Print
Serial No.	A	B	Output	Remarks
1	1	1	0	Correct
2	1	0	1	Correct
3	0	0	1	Correct
4	0	1	1	Correct

Reset

INSTRUCTIONS

Verification of truth table for NOR gate



TRUTH TABLE

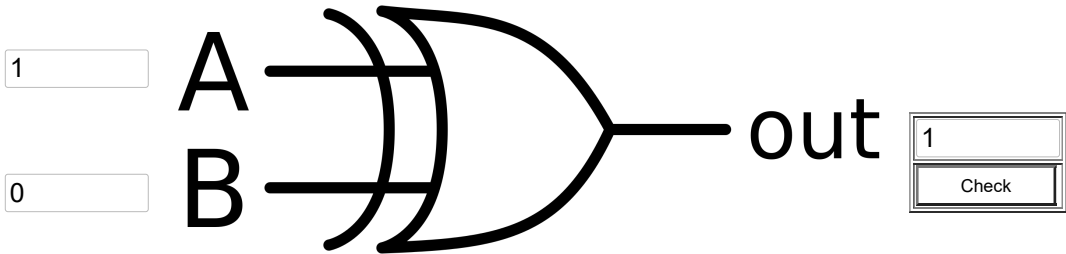
Print

Serial No.	A	B	Output	Remarks
1	0	0	1	Correct
2	1	0	0	Correct
3	1	1	0	Correct
4	0	1	0	Correct

Reset

INSTRUCTIONS

Verification of truth table for XOR gate



TRUTH TABLE

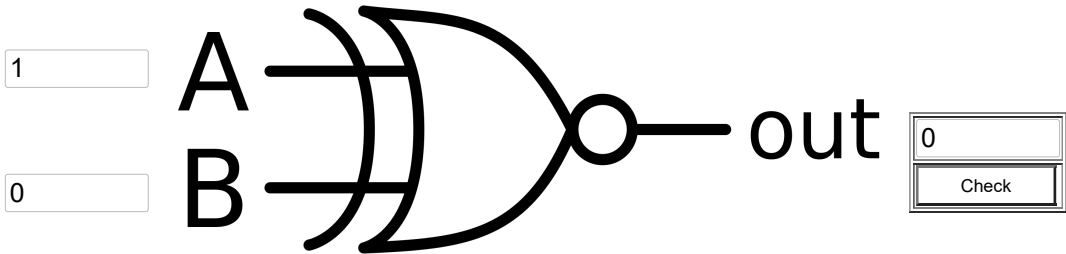
Print

Serial No.	A	B	Output	Remarks
1	0	0	0	Correct
2	1	1	0	Correct
3	0	1	1	Correct
4	1	0	1	Correct

Reset

INSTRUCTIONS

Verification of truth table for XNOR gate



TRUTH TABLE

Print

Serial No.	A	B	Output	Remarks
1	0	0	1	Correct
2	0	1	0	Correct
3	1	1	1	Correct
4	1	0	0	Correct

Reset