Implementing NOT & AND logic gates

Spoken Tutorial Project
https://spoken-tutorial.org
National Mission on Education through ICT
http://sakshat.ac.in

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How to implement logic gates

Learning Objectives

How to implement logic gates
- **NOT**

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- **AND**

System Requirements

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- **Switchboard module**

- **Normal Contact and Coil**

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- **Negated Contact and Coil**

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Pre-requisites

- **Normal Contact and Coil**
- **Negated Contact and Coil**

If not, please refer to the relevant tutorials in this series from

https://spoken-tutorial.org

Prerequisites - Hardware setup

NOT gate

For a NOT gate the output boolean is inverse of the input

AND gate output state is 1 only when all of its input states are 1

Summary

We learnt to implement logic gates

- **NOT**
- **AND**

Assignment

Implement 2-input NAND logic gates

Truth Table:

A	B	NAND(A,B)
0	0	1
0	1	1
1	0	1
1	1	0

About the Spoken Tutorial Project

- **Watch the video available at https://spoken-tutorial.org /What_is_a_Spoken_Tutorial**

- **It summarises the Spoken Tutorial project**

- **If you do not have good bandwidth, you can download and watch it**

Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- **Conducts workshops using spoken tutorials**
- **Gives certificates to those who pass an online test**
- **For more details, please write to contact@spoken-tutorial.org**

Forum questions

- **Questions in THIS Spoken Tutorial?**

- **Visit `https://forums.spoken-tutorial.org/`**

- **Choose the minute and second where you have the question**

- **Explain your question briefly**

- **The Spoken Tutorial project will ensure an answer**

You will have to register to ask questions

Forum for specific questions

- **Questions not related to the Spoken Tutorial?**

- **Do you have general / technical questions on the Software?**

- **Please visit the FOSSEE Forum**

  https://forums.fossee.in/

- **Choose the Software and post your question**

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THANK YOU!

For more Information, visit our website https://fossee.in/