

AND Gate

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

Spoken Tutorial & FOSSEE Team

IIT Bombay

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Learning Objectives



Learning Objectives

We will learn about



Learning Objectives

We will learn about

- **AND Gate**



Learning Objectives

We will learn about

- **AND Gate**
- **Verify its truth table**



Pre-requisites



Pre-requisites

To follow this tutorial, you should have basic knowledge of

- **Electrical Circuits**



System Requirement



System Requirement

- **Ubuntu Linux 20.04 OS**



System Requirement

- **Ubuntu Linux 20.04 OS**
- **CircuitJS Application**



About Logic Gates



About Logic Gates

- **Logic gates are the building blocks of Digital Electronics or computer operations**



About Logic Gates

- **Logic gates are the building blocks of Digital Electronics or computer operations**
- **These gates are made of multiple transistors**



About Logic Gates



About Logic Gates

- **Logic gates have one or more inputs and have one output**



About Logic Gates

- **Logic gates have one or more inputs and have one output**
- **Each input terminal is either True or False**



AND Gate Truth Table



Assignment 1

- 1 Using the Switches and LED circuit, verify the AND gate truth table



Summary

In this tutorial, we learnt about

- **AND Gate**
- **Verify its truth table**



Assignment 2

- 1 With the AND gate component, check and verify the AND gate truth table



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



Answers for THIS Spoken Tutorial

- 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



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Thank You

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