

Subcircuit Builder in eSim

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Gloria N

IIT Bombay

20 May 2020



Learning Objectives

In this tutorial, we will learn to-



Learning Objectives

In this tutorial, we will learn to-

- ▶ Create a Subcircuit



Learning Objectives

In this tutorial, we will learn to-

- ▶ Create a Subcircuit**
- ▶ Create a Component Schematic**



System Requirements



System Requirements

- ▶ **Ubuntu Linux OS version 16.04**



System Requirements

- ▶ **Ubuntu Linux OS version 16.04**
- ▶ **eSim version 2.0**



Prerequisites



Prerequisites

- ▶ **To create and simulate the circuit in eSim**



Prerequisites

- ▶ To create and simulate the circuit in eSim
- ▶ <https://spoken-tutorial.org/>



General form of Subcircuit

.SUBCKT subnam N1 N2

- ▶ The subcircuit file begins with
 .Subckt line

.Ends subnam

- ▶ The subcircuit file ends with
 .Ends line



Code File

- ▶ Download the `Half_Adder_Basic_Gates` project from the Code file section
- ▶ Extract the zip file and save it on Desktop



**You can download the example
HA_Test example project file from the
code file section.**



Summary

In this tutorial, we learnt to :

- ▶ Create a Subcircuit**
- ▶ Create a Component Schematic**



Forum to answer questions

- ▶ **Do you have questions in this Spoken Tutorial?**
- ▶ **Choose the minute and second where you have the question.**
- ▶ **Explain your question briefly.**
- ▶ **Someone from the FOSSEE team will answer**

<https://forums.spoken-tutorial.org/>



- ▶ Please post your queries on eSim in the FOSSEE forum.
<https://forums.fossee.in/>



Circuit Simulation

- ▶ The FOSSEE team coordinates the Circuit Simulation project.
- ▶ Contributors will receive Certificates and Honorarium.
- ▶ For more details, please visit this site:

<https://esim.fossee.in/circuit-simulation-project>



Lab Migration

- ▶ The FOSSEE team coordinates the Lab Migration project.
- ▶ For more details, please visit this site:

<https://esim.fossee.in/lab-migration-project>



Acknowledgements

- ▶ Spoken Tutorial Project is funded by NMEICT, MHRD, Govt. of India.
- ▶ For more details, visit this website.
<https://spoken-tutorial.org/>



THANK YOU!

