Series and Parallel Resistance

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

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- **To connect Resistors in series and parallel circuits**

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- **To connect Resistors in series and parallel circuits**
- **Voltage and Current characteristics behave in series and parallel circuits**

System Requirement

- **Ubuntu Linux 20.04 OS**

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- **CircuitJS Application**

Pre-requisites

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To follow this tutorial, you should have basic knowledge of

- **Electrical Circuits**

Series Resistance

Series Resistance

Parallel Resistance

Parallel Resistance

Assignment - Series Resistance

1. In the same circuit, change the value of resistors as R1 = 4K Ohms, R2 = 2K Ohms, R3 = 100 Ohms
2. Change the DC power supply voltage to 5 Volts
3. Notice the current flowing and voltage drop at each resistor

Assignment - Parallel Resistance

1. **Change the DC voltage supply value to 5 Volts**
2. **Notice the change in voltage and current for each resistor**

Summary

In this tutorial, we learnt how

- **To connect Resistors in series and parallel circuits**
- **Voltage and current characteristics behave in series and parallel circuits**

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**

- **You will have to register to ask questions**

Acknowledgements

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Thank You

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