**Full-Wave Bridge Rectifier**

This project demonstrates how to build a Full-Wave Bridge Rectifier using 4 Diodes. The system converts alternating current (AC) into direct current (DC) using a full-wave bridge rectifier, allowing components like LEDs to operate reliably from AC sources. It solves the polarity issue by ensuring the output voltage remains in the same direction, regardless of the input polarity changes during each AC cycle.

**Components and Supplies**

AC source

4 x Diodes

Wires

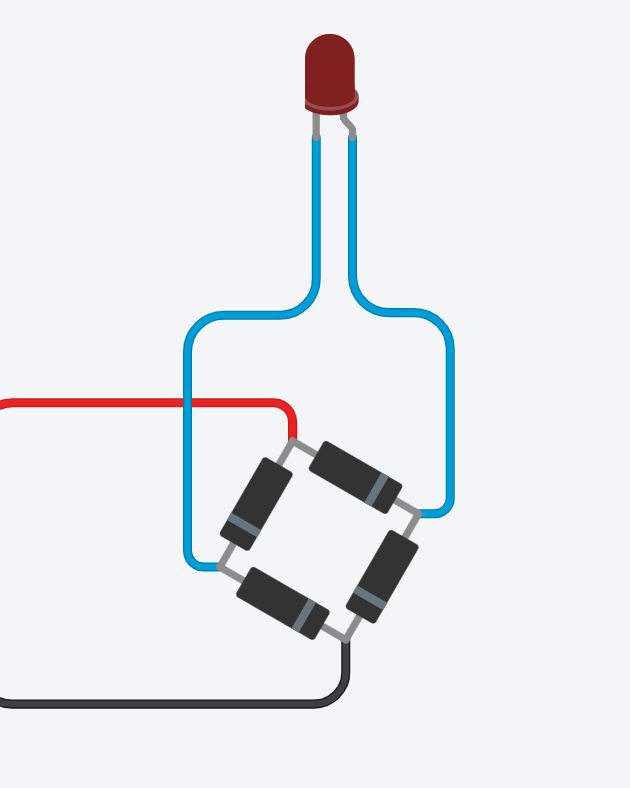
Led (Output)

**Project Description:**

**How It Works**

The full-wave bridge rectifier converts alternating current (AC) into direct current (DC), enabling safe and consistent power delivery to DC components like LEDs or sensors. The circuit uses four diodes arranged in a bridge configuration to ensure that both halves of the AC cycle contribute to the output, eliminating negative voltage and providing a steady positive output.

**Circuit Connection**

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