

## **Non contact Voltage Tester**

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### **Introduction:**

To provide a quick and easy method for identifying the presence of voltage in electrical circuits, especially in hard-to-reach or dark space

### **Methodology:**

A Non-Contact Voltage Tester works by detecting the electromagnetic field generated by AC voltage. When an AC current flows through a conductor, it creates a varying magnetic field around it. This tester detects that field without needing to make direct contact with the conductor.

### **Result:**

- The project demonstrates that a functional voltage tester can be built using basic, inexpensive components.
- The device provides a reliable method to verify the absence of voltage before working on electrical systems, reducing the risk of electric shock.

### **Conclusion:**

- The tester detects the presence of AC voltage without direct contact, ensuring user safety.
- The project offers valuable learning opportunities in electronics, particularly in understanding electromagnetic fields and transistor amplification

Circuit diagram :

