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Making a Capacitance Meter using Arduino UNO

This project uses an **Arduino Uno** to measure the **capacitance** of an unknown capacitor. It works by charging the capacitor through a known **resistor** and measuring the **time** it takes to reach a specific voltage level (around 610 analog units). Using the time and the known resistor value, the Arduino calculates the **capacitance in microfarads or nanofarads**, and displays the result on the **serial monitor**. This is a practical project to understand the **RC charging circuit** and the behavior of capacitors in real-time.