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Interfacing PIR Sensor with Arduino UNO

This project demonstrates how to detect motion using a Passive Infrared (PIR) sensor with an Arduino UNO. When motion is detected, the sensor sends a signal to the Arduino, which then turns on an LED and prints "Motion Detected" on the serial monitor. If no motion is detected, the LED remains off, and "No Motion Detected" is displayed. It's a simple yet effective setup for basic security or automation systems.