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Interfacing PIR Sensor with Arduino UNO

This project demonstrates how to interface a PIR motion sensor with an Arduino UNO to detect movement and activate an LED. When motion is detected by the sensor (connected to pin 13), the LED (on pin 12) turns on and a message "Motion Detected" is printed on the Serial Monitor. If no motion is detected, the LED remains off and "Motion Not Detected" is displayed. This setup is ideal for basic motion-activated lighting or security systems.