README : מדריך הפעלה

תרגיל Arduino1 – קבוצה 24

Hotel Room Safety and Comfort System

Overview

This project enhances hotel guest safety and comfort by monitoring room entry and providing smart notifications.

Components

- LCD Display
- Green and Red LEDs
- Servo Motor
- PIR Motion Sensor
- Piezo Buzzer
- Arduino Microcontroller

Functionality

Normal Operation

- Green LED on
- LCD displays "Welcome to our hotel!"
- Servo motor is static

Motion Detected

- Red LED on
- LCD displays "Movement detected!"
- Piezo buzzer sounds
- Servo motor scans area

Setup

1. Connect components as per the pin configuration in the code.
2. Upload the provided Arduino sketch.
3. Power the Arduino board and ensure all components function correctly.