Simon Game

Purpose: A memory game using 4 LEDs, 4 buttons, and a speaker. The player repeats a growing sequence of lights.

Main Features:

- LEDs & Buttons: Represent different colors or steps in the sequence.
- **Buzzer**: Plays tones for feedback.
- **Difficulty Selection**: User chooses how fast the sequence is shown.
- **Sequence Generation**: Randomly adds a new step each round.
- Player Input: Player has 5 seconds to repeat the sequence.
- **Game Over**: Triggered by a wrong input or timeout, with light & sound alerts.
- Uses millis() for non-blocking timeout.
- Clean **modular functions** (showSequence(), getUserInput(), etc.).