- **Circuit Connections:**
- The **input device** for this project is a **4×4 keypad**, which has **8 terminals**. Each terminal is connected to a separate digital pin on the **Arduino board**, enabling it to detect key presses. When a key is pressed, it activates a specific function, sending the corresponding input signal to the Arduino.
- A **breadboard** is used to manage all external connections to the **Arduino board**. To establish power distribution, the **5V** and **GND** pins of the Arduino are connected to the breadboard's power and ground rails, respectively.
- For **output components**, two **LEDs** (one **red** and one **green**) and a **Piezo buzzer** are used. The **cathodes** of both LEDs are connected to the ground rail via **resistors**, while their **anodes** are wired to digital pins **D10** and **D11** on the Arduino.
- The **Piezo buzzer** is also connected to the Arduino, with its **positive terminal** linked to digital pin **D12** and its **negative terminal** connected to the ground rail on the breadboard.
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