

Project Overview: IR Remote-Controlled Servo Motor

This project **controls a servo motor using an IR remote**. An **IR receiver** reads signals from the remote and moves the servo to specific angles based on the received IR codes.

How It Works:

1. The **IR receiver** detects button presses from the remote.
2. The Arduino **decodes the IR signal** and checks which button was pressed.
3. Based on the button:
 - Moves the **servo motor** to **45°**, **90°**, or **135°**.
4. After executing a command, the **servo resets to 0°**.

This setup is useful for **robotics, automation, and remote-controlled systems**