Circuit Connections

1. **IR Sensor:**

   ○ Connect the **output pin** of the **IR sensor** to **digital pin 5** on the **Arduino**.

   ○ Connect the **power pin** of the IR sensor to the **power supply** (5V).

   ○ Connect the **ground pin** of the IR sensor to **GND**.

2. **Servo Motor:**

   ○ Connect the **ground pin** of the **servo motor** to the **ground rail** (GND).

   ○ Connect the **power pin** of the servo motor to the **power supply** (5V).

   ○ Connect the **control pin** of the servo motor to **digital pin 3** on the **Arduino**.

Working

● When **button 1** is pressed, the **servo motor** rotates to **45 degrees**, then returns to its initial position after **1000ms** (1 second).

● When **button 2** is pressed, the **servo motor** rotates to **90 degrees**, then returns to its initial position after **1000ms**.

- When **button 3** is pressed, the **servo motor** rotates to **135 degrees**, then returns to its initial position after **1000ms**.

- When **button 4** is pressed, the **servo motor** rotates to **180 degrees**, then returns to its initial position after **1000ms**.