* **Distance Measurement Display:**

Connect an ultrasonic sensor and a 7-segment display to the Arduino. Program it to measure the distance to an object in front of the ultrasonic sensor and display the result on the 7-segment display.

Link : <https://www.tinkercad.com/things/a52o6HbHxPj-distance-measuremnet-display/editel?returnTo=%2Fthings%2Fa52o6HbHxPj-distance-measuremnet-display>

* **Smart Distance Counter:**

Connect both an ultrasonic sensor and a touch sensor to the Arduino. Display a counter on the 7-segment display that increments every time an object (such as a hand) crosses a specified distance threshold (detected by the ultrasonic sensor). Use the touch sensor to reset the counter.

Link : <https://www.tinkercad.com/things/hALB4RdLfNr-smart-distance-counter/editel?returnTo=https%3A%2F%2Fwww.tinkercad.com%2Fdashboard%2Fdesigns%2Fcircuits>

* **Touch-Activated Range Finder:**

Program the Arduino to take a distance reading from the ultrasonic sensor only when the touch sensor is activated. Display the measured distance on the 7-segment display and hold the value for 5 seconds before clearing.

Link : <https://www.tinkercad.com/things/ckWCjNoWFUU-touch-activated-range-finder/editel?returnTo=https%3A%2F%2Fwww.tinkercad.com%2Fdashboard%2Fdesigns%2Fcircuits>

* **Countdown Timer with Obstacle-Activated Reset:**

Use the touch sensor to start a countdown on the 7-segment display. If the ultrasonic sensor detects an obstacle (within a specified range) during the countdown, reset the timer. Display "E" on the display if the countdown completes without interruption.

Link : <https://www.tinkercad.com/things/cFfOZ7TGJu0-countdown-timer-with-obstacle-activated-reset/editel?returnTo=https%3A%2F%2Fwww.tinkercad.com%2Fdashboard%2Fdesigns%2Fcircuits>

* **Digital Stopwatch:**

Create a simple stopwatch using an LCD display and two buttons. Use one button to start/stop the stopwatch and the other to reset it.

Link : <https://www.tinkercad.com/things/j5ADTsLcAVq-digital-stopwatch/editel?returnTo=https%3A%2F%2Fwww.tinkercad.com%2Fdashboard%2Fdesigns%2Fcircuits>

* **Motion-Activated Alarm:**

Connect a PIR motion sensor to the Arduino and write code to sound a buzzer when movement is detected. Add a feature to log the timestamp of each detected movement in the Serial Monitor.

Link : <https://www.tinkercad.com/things/9y2jEDpHOY4-motion-activated-alarm/editel?returnTo=https%3A%2F%2Fwww.tinkercad.com%2Fdashboard%2Fdesigns%2Fcircuits>

* **Temperature Monitoring System:**

Using a DHT11 or LM35 temperature sensor, create a temperature monitoring system that reads temperature data and displays it on the Serial Monitor. Adjust the code to send a warning message if the temperature exceeds a certain threshold.

Link : <https://www.tinkercad.com/things/03a2HXuHNbI-temperature-monitoring-system/editel?returnTo=https%3A%2F%2Fwww.tinkercad.com%2Fdashboard%2Fdesigns%2Fcircuits>

* **People Counter with Direction Detection:**

Place an IR sensor on either side of a doorway to count the number of people entering and exiting. Display the count on a 7-segment display. Use the ultrasonic sensor to confirm direction by measuring the time an object passes between the two IR sensors.

Link : <https://www.tinkercad.com/things/gti6xW7i9Wr-people-counter-with-direction-detection/editel?returnTo=https%3A%2F%2Fwww.tinkercad.com%2Fdashboard%2Fdesigns%2Fcircuits>