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Making Smart Hand Sanitizer using Ultrasonic Sensor, Servo Motor and Arduino UNO

This project presents a **touchless hand sanitizer dispenser** built with an **Arduino Uno**, an **ultrasonic sensor (HC-SR04)**, and a **servo motor**. The ultrasonic sensor detects when a hand is placed near the dispenser (typically within 10–15 cm). When detected, the Arduino triggers the **servo motor** to rotate and push the sanitizer bottle nozzle, dispensing sanitizer without physical contact. This project promotes hygiene and is ideal for use in public places, homes, and offices to prevent the spread of germs.