

CODTECH IT SOLUTIONS

Online internship program 2025

Task 1

Task 1:- push button counter project

Objective

Create a simple counter using Arduino, an LCD display, and a push button. The counter increments each time the push button is pressed.

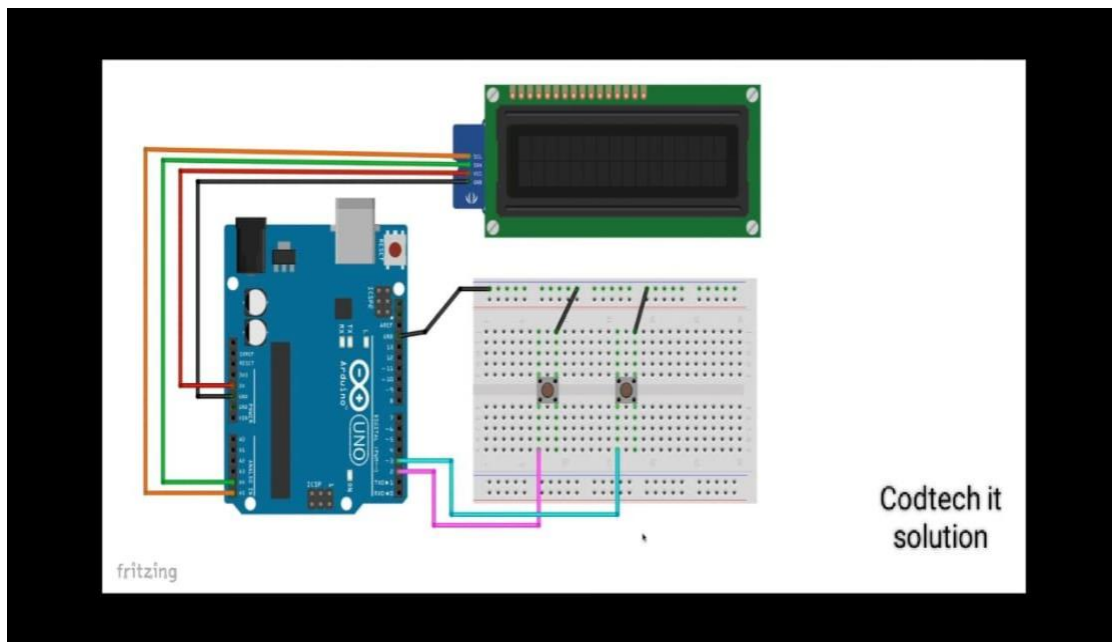
Components

- Arduino Uno board
- LCD display (16x2 or 20x4)
- Push button
- Breadboard
- Jumper wires

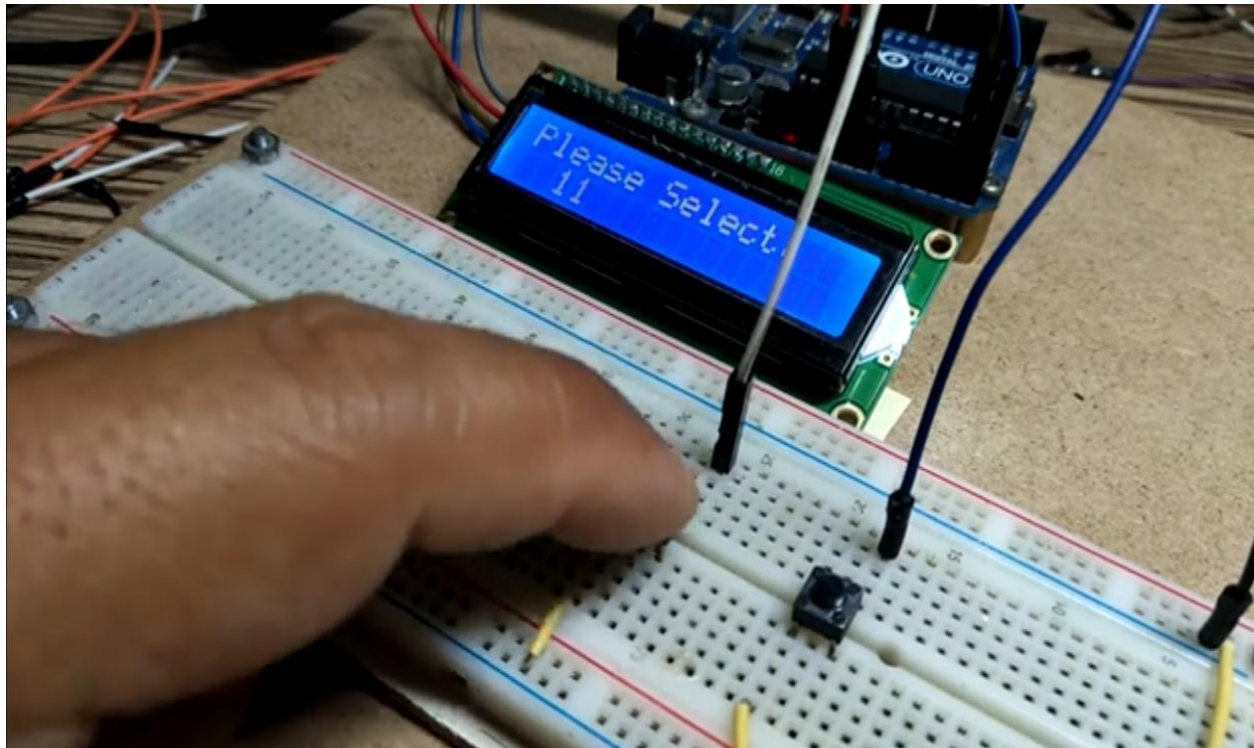
Software:

- Arduino IDE
- LiquidCrystal library

Circuit design



Output



Working

1. Initialize the LCD display and set the cursor to the first row.
2. Read the state of the push button.
3. If the push button is pressed, increment the counter value.
4. Display the counter value on the LCD display.
5. Repeat steps 2-4.

Features

- Simple and easy-to-use interface
- Incremental counter with push button
- LCD display shows the counter value
- Adjustable counter value

Applications:

- Counting objects or events
- Simple games or quizzes
- Educational projects
- Industrial automation