# Selenium Mini Project: Locating Elements

## Problem 1: Login Automation Tester

**Objective:** Automate login functionality for a demo site using correct and incorrect credentials.

**Tasks:**

* Locate username and password fields using **id or name**
* Use **clear()** before **send\_keys()** to fill the form
* Submit form using **click()** on login button
* Use **Keys.ENTER** as an alternative for submit
* Validate login success/failure based on displayed message

**Practice Site:** <https://www.saucedemo.com>

## Problem 2: Search Box Interaction

**Objective:** Automate a search feature and simulate real typing behavior.

**Tasks**

* Locate search input box using **XPath or CSS Selector**
* Use **send\_keys()** to type a query
* Use **Keys.BACKSPACE or clear()** to modify the search term
* Submit the query using **Keys.ENTER**
* Verify search results are displayed

**Practice Site:** <https://demoqa.com/auto-complete>

## Problem 3: Form Field Reset

**Objective:** Simulate filling and resetting a form input field.

**Tasks:**

* Locate input fields (name, email, message)
* Use **send\_keys()** to enter data
* Clear the input using **clear()** function
* Re-fill and submit using **click()** on a submit button
* Use **Keys.TAB** to move between fields

**Practice Site:** <https://www.selenium.dev/selenium/web/web-form.html>

## Problem 4: Keyboard Navigation with Keys

**Objective:** Automate a form fill using keyboard-only operations.

**Tasks:**

* Use **send\_keys(Keys.TAB)** to navigate between fields
* Use **send\_keys()** to enter values
* Use **Keys.SHIFT** + **TAB** to go backward
* Use **Keys.ENTER** to submit the form
* Assert confirmation message

**Practice Site:** <https://testpages.eviltester.com/styled/basic-html-form-test.html>

## Problem 5: Multi-Field Form Handler

**Objective:** Fill a complete multi-field form using **clear(),** **send\_keys(),** and validate field input.

**Tasks:**

* Use various element locator strategies: **id, name, css, xpath**
* Clear existing values and enter new ones
* Use **send\_keys()** for multiple fields: **dropdown, radio, input**
* Click checkboxes, submit form
* Validate form confirmation message or result page

**Practice Site:** <https://demoqa.com/automation-practice-form>