**Documentation: Automated Google Form Filling with CAPTCHA Handling**

This script automates the process of filling out a Google Form using Selenium, including handling CAPTCHA. Below is a high-level explanation of the approach:

**1. User Input Collection**

* The script prompts the user to enter details like:
  + Full Name
  + Contact Number
  + Email ID
  + Full Address
  + Pin Code
  + Date of Birth
  + Gender
* These inputs are stored in a dictionary for easy access.

**2. WebDriver Initialization**

* The script uses Selenium to interact with the form.
* ChromeDriver is initialized, and the target Google Form URL is loaded.

**3. Form Field Identification**

* Form fields are located using their respective XPath values.
* Each field is filled with user-provided data:
  + Text inputs are populated using the send\_keys() method.

**4. CAPTCHA Handling**

* The script locates the CAPTCHA element on the form using its XPath.
* It reads the CAPTCHA text from the displayed location (.text attribute).
* The CAPTCHA text is then entered into the corresponding input field.

**5. Form Submission**

* The script locates and clicks the "Submit" button using its XPath.
* It ensures submission is successful by adding a delay after clicking.

**6. Screenshot Capture**

* After form submission, a screenshot of the confirmation page is taken.
* The screenshot is saved locally as form\_submission\_confirmation.png.

**7. Error Handling and Cleanup**

* The script uses try-finally blocks to ensure the browser is closed even if errors occur.
* This avoids leaving browser sessions open.

**Advantages of the Approach**

* **Automation**: Eliminates manual effort for repetitive form submissions.
* **Reliability**: XPath selectors ensure accurate field targeting.
* **CAPTCHA Handling**: Automates CAPTCHA reading and input.
* **Output Capture**: Provides a visual confirmation of successful submission.

This method is designed for simplicity and flexibility, allowing users to easily adapt it for other forms with minor adjustments.