**Prompt:**

Write test cases for google home page

**Answer:**

Here are some test cases for the Google home page:

Functional Test Cases:

* Verify that the Google home page is displayed when the URL [https://www.google.com](https://www.google.com/) is entered in the browser.
* Verify that the Google logo is displayed at the top of the page.
* Verify that the search box is clickable and the cursor is focused on it.
* Verify that the user is able to enter text in the search box, including alphabet, numeric, and special characters.
* Verify that the user is able to copy and paste text in the search box.
* Verify that the "Google Search" button is clickable and performs a search when clicked.
  + [Note - this is wrong. It won't execute an empty search]
* Verify that the "I'm Feeling Lucky" button is clickable and takes the user to the top search result page.
  + [Note - this is wrong. It won't execute an empty search]
* Verify that the search results are relevant to the entered keyword and contain links to the respective web pages.
* Verify that the search results are sorted by relevancy in descending order, with the most relevant result for the keyword displayed on top.
* Verify that the response for a multi-word keyword is correct.
* Verify that the total number of results fetched for a keyword is displayed.
* Verify that pagination is present when the number of results is more than the limit on a single page, and the user can navigate to subsequent pages' results.
* Verify that Google's advanced search options, such as searching within a website or searching for files of a specific extension, are working correctly.
* Verify that the search response is localized, meaning the response is more relevant to the country/area from which the search request is initiated.
* Verify that Google calculator service is working correctly, and the correct result is displayed for any arithmetic request.

Non-Functional Test Cases:

* Verify that the Google home page is loading within an acceptable time frame.
* Verify that the Google home page is responsive and displays correctly on different screen sizes and resolutions.
* Verify that the Google home page is accessible to users with disabilities.
* Verify that the Google home page is compatible with different browsers and operating systems.
* Verify that the Google home page is secure and uses HTTPS protocol.
* Verify that the Google home page is not displaying any broken links or images.
* Verify that the Google home page is not displaying any pop-ups or ads that interfere with the user experience.Note that this is not an exhaustive list of test cases, and additional test cases may be required based on the specific requirements of the project.