Technical Task: Test The Google Homepage

I would start testing Google page by reviewing available requirement/ documentations of the page and its functionalities. Acquired knowledge would be taken into account when creating test scenarios. Lack of such documentation would not block my task, I would focus more on page analysis.

I noticed that some page functions are available only for certain languages/ web browsers. Created tests should work for every language and for each search phrase (the verdict of the test case should be based on unchangeable elements of the page, not on .f.e. text, which depends on the settings). If function is not available, this should be caught by exception handling. For each search, "Images, Videos, etc…" tabs are arranged in a different order, so they have to be selected using unchangeable attributes, as for example their icons. Each test case has to check one condition (test case atomicity). Repeatable parts of the code should be implemented in functions to minimize the code lines amount. Code needs to be transparent and clear.

As first, I would test the main functionalities of the Google page- search bar, if the search for the given phrase works correctly, if suggestions dropdown appears and shows clickable elements and also if after click there is redirection to results page. I would try to search phrase for which Google would not be able to find search results, to check if "Results not found" page appears.

I would also check if X button (used for clearing search bar) works as expected. I would try to search empty search bar to check if I stay on the main page. I would also test screen keyboard (if available), if it appears and allows to insert text.

After checking the most important part of Google main page, I would check all visible buttons- if the links are working, if they redirect to expected pages, if the dropdown menu appears after clicking the button and if elements located inside that drop down works as expected.

The next step would be checking search results pages. Similarly as before, I would check if the search bar works correctly and if all available buttons behave as expected. Verifying the filtering results is also important. Then I would go to "Images" tab and check if graphic format elements are displayed. I would choose one of search results element and check if details and "Related images" are displayed after clicking on it. I would check all buttons available on "Image details" page, f.e. "See more", or "Related searches". This time I would also test the filtering of the results- if it's available and works as expected. It's worth checking if clicking the Google logo redirects back to the main page.

Similar tests would be done in "Videos" tab, as well as on all the others visible.

After checking all the essential elements of the pages, I would start testing features, which are not necessary for proper page operations, but they make the usage more pleasant or easier. For example, I would check if after hovering the mouse over the application button on main Google page, the "Google apps" bubble appears, or check if hovering the mouse over the video miniature would start the video preview (if available).