

**Test Case 1: test\_auto\_complete\_on\_searchbar**

**Objective:** To verify that search suggestions auto-complete the search bar as the user types.

**Test Steps:**

1. Open the YouTube website.
2. Locate the search bar element.
3. Type "python program"
4. Select the first auto completed search text from the menu

**Expected Result:**

- The search suggestions should be "python programming"

**Test Case 2: test\_empty\_search**

**Objective:** To verify the behavior when a user tries to perform a search with an empty query.

**Test Steps:**

1. Open the YouTube website.
2. Locate the search bar element.
3. Leave the search bar empty.
4. Press Enter or click on the search button.

**Expected Result:**

- The search should not be performed, and the user should remain on the current page without any changes.

**Test Case 3: test\_search**

**Objective:** To verify that the search functionality returns relevant results based on the search query.

**Test Steps:**

1. Open the YouTube website.
2. Locate the search bar element.
3. Type "python programming".
4. Press Enter .

**Expected Result:**

- The of the page should change to include "python programming"

**Test Case 4: test\_change\_to\_light\_theme**

**Objective:** To verify that the user can change the theme of the YouTube interface to light mode.

**Test Steps:**

1. Open the YouTube website.
2. Locate the settings
3. Select the option to change the theme to light mode.

**Expected Result:**

- The YouTube interface should change to light mode with the appropriate color scheme.

**Test Case 5: test\_skip\_ad\_button**

**Objective:** To verify that the "Skip Ad" button appears and works correctly during advertisement playback.

**Test Steps:**

1. Open the YouTube website.
2. Play a random video.
3. Wait for the advertisement to start playing.
4. Locate and click on the "Skip Ad" button (if available) after the designated time.

**Expected Result:**

- The advertisement should be skipped, and the user should be directed to the main video content.

**Test Case 6: test\_change\_video\_resolution\_to360p**

**Objective:** To verify that the user can change the video resolution to 360p.

**Test Steps:**

1. Open the YouTube website.
2. Play a random video.
3. Locate the video resolution settings.
4. Select the option to change the video resolution to 360p.

**Expected Result:**

- The video resolution should be changed to 360p, and the video playback quality should adjust accordingly.

These test cases cover various aspects of YouTube's functionality, including search behavior, theme customization, advertisement handling, and video resolution settings.