Analysis UI Task Philosophy

Tools and Technologies Required

- **Selenium WebDriver**: A browser automation framework that allows you to perform web actions such as clicking links or reading webpage contents.
- **Programming Language**: The task specifies that any Object-Oriented Programming (OOP) language can be used, with a preference for C#. I am using Java.
- **Page Object Pattern**: An architectural pattern used in test automation that promotes the separation of concerns by keeping the page-related code away from the main logic of your application. This makes the code cleaner and maintenance easier.

Steps to Accomplish the Task

1 SETUP ENVIRONMENT

- Install Selenium WebDriver for the chosen programming language.
- Ensure you have a WebDriver (e.g., ChromeDriver, FirefoxDriver) that matches your browser version.

2 IMPLEMENT PAGE OBJECT PATTERN

- Create a wikipedia page class that includes actions performed on the wikipedia webpage.
- This class should provide methods to identify and click the first link in the main content area.

3 DEVELOP THE MAIN LOGIC

- Open a random Wikipedia article. You can do this by navigating to the URL **https://en.wikipedia.org/wiki/Special:Random**
- Identify the first link in the article.
- Click on the identified link and then continue to follow the first link on subsequent pages.
- Keep track of the number of transitions.
- Once you reach the "Philosophy" page, print out the number of redirects it took to get there.

4 CONSIDERATIONS FOR ROBUSTNESS

- **Limitations**: Set a reasonable limit on the number of redirects to avoid infinite loops in cases where the "Philosophy" page cannot be reached and navigate to a different random article and start over.

5 TESTING AND REFINEMENT

- Test your implementation with various starting articles to ensure reliability.
- Refine your link selection logic as needed based on the challenges you encounter during testing.