**Description**

This Python code simulates a web scraping task using Selenium to find the longest and shortest search options from Google search results for a given list of keywords. The keywords are determined based on the current day of the week. The results are then saved to an Excel spreadsheet.

**Code Breakdown**

1. **Functions**

*get\_day\_of\_week()*

This function retrieves the current day of the week as a string (e.g., "Sunday", "Monday").

*get\_keywords(day)*

This function takes the day of the week as input and returns a list of keywords associated with that day. For example, if the day is "Sunday", the function returns a list containing keywords like "Dhaka", "Sunday", "Baby", etc.

*google\_search(keyword)*

This function takes a keyword as input and performs a Google search using Selenium. It then extracts the longest and shortest snippets from the search results and returns them as a tuple.

*save\_to\_excel(data)*

This function takes a list of data (containing keywords, longest options, and shortest options) and saves them to an Excel spreadsheet named "google\_search\_results.xlsx".

*main()*

This function is the main entry point of the script. It calls the *get\_day\_of\_week()* function to get the current day, then uses the *get\_keywords()* function to retrieve the corresponding keyword list. It iterates through the keywords, calls the *google\_search()* function for each keyword to find the longest and shortest options, and stores the results in a list. Finally, it calls the save\_to\_excel() function to save the results to an Excel spreadsheet.

1. **External Libraries**

*selenium*: This library is used for web automation and scraping.

*openpyxl*: This library is used to create and manipulate Excel spreadsheets.

*datetime*: This library is used for working with dates and times.

**How to Run the Code**

Make sure you have the required libraries installed (selenium, openpyxl, and datetime). You can install them using pip:

*pip install selenium openpyxl*

Save the code as a Python file (e.g., google\_search\_scraper.py).

Run the script from the terminal:

*python google\_search\_scraper.py*

This will perform a Google search for each keyword based on the current day of the week, extract the longest and shortest search options, and save the results to a spreadsheet named:

*"google\_search\_results.xlsx"*