Task 1

- a) Please describe your experience with one of the following areas:
- Python
- SQL
- Wordpress
- Web development
- Data science

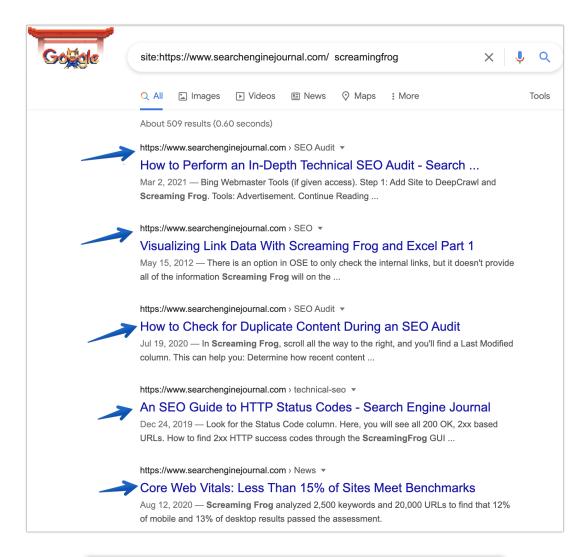
Any projects, GitHub links you can provide are welcome.

Task 2: scraping the "site" command (optional)

You can use a technology of your choice, but we prefer scripts written in Python as this is the main technology we use in our applications.

Algorithm is as follows:

- 1. The program is looping through a list of keywords in the .txt file (keywords.txt)
- 2. Then it queries Google.com using the following set of queries:
 - a. site: https://www.searchenginejournal.com/ {keyword}
- For every query, the program goes through Google Search Results and extracts all the links pointing to SearchEngineJournal. We need extractions only from the first page of results but if you can get more, it would be a good addition.
- We also want the total number of results (the number above the first result) to be extracted.





- 5. The program saves all the links pointing to SearchEngineJournal to a CSV file.
- 6. The total numbers of results should be saved in a different file along with the associated keyword.

What's needed?

- Program source code we don't need a compiled application.
- Short documentation on how the program works (in English) including description of functions/classes (this might be added as comments in your code).
- Ideas on how the software can be improved in the future.
- Are there any risks associated with using such a program?
- The program doesn't need to solve captchas.

Task 3: 120 Years of Olympic History data analysis (optional)

We would like to analyze the dataset containing information about the Olympics.

The dataset is available here:

https://www.kaggle.com/mysarahmadbhat/120-years-of-olympic-history

Questions to answer:

- What countries receive the most medals nowadays? Does it change much across the timespan?
- Who wins the most medals? Women or men?
- What's the trend for the number of participants?
- What is the relation between age and medals won?
- Do tall people win more medals?
- Which sports are dominated by short people? (You must define "short")
- Which families (same surname) win the most medals?

Requirements:

- Software you use is up to you. You can use Excel, Jupyter Notebook, Tableau, R,
 Python, MS Power BI or any software of your choice.
- Write a short summary in English.