Interview process:

- 1. Offline assessment test (python automation) submit the test code on or before 6:00 pm 1st July 2021.
- One Technical interview 30 min code walkthrough and discussion on Friday 2nd July or Saturday 3rd July 2021
- 3. HR onboarding 5th July 2021

1. Offline assessment test

Each of the below offline assessment carries certain score points with it, write an executable code (no pseudo code allowed) to solve and showcase your analytical skill & data enthusiasm.

Assignment #1 (web scraping with selenium and python) [40 POINTS]

<u>Objective</u>: For a given company short name, write a code to find the company website url from google search programmatically. In case of ambiguity, select only the top one result as company website from google result.

Test case Input:

Company short name:

Example1: Orbital Insight

Example 2: Pandora

Example 3: Goldcorp Inc.

Example 4: Roy Hill

Expected result:

Result 1: orbitalinsight.com

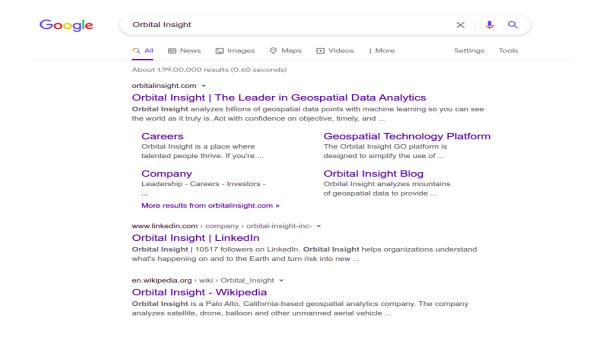
Result 2: pandora.net

Result 3: newmont.com

Result 4: royhill.com.au

<u>Tools & language to be used</u>: Python and any python web scraping library (like selenium)

Manual google search result, This is what you need to replicate using python and web scraping tools to get the company website url from company short name.



Assignment #2 (web scraping with selenium and python) [40 POINTS]

<u>Objective</u>: For a given company website urls, write a code to get some of the company's basic details from google search programmatically (if available).

In case no result is found for a given company website url on google search, then print all details as empty as per the expected result format.

Input: Company website url.

Example 1: pandora.net

Expected result:

```
Result 1 (python dictionary with key-value pair):

{

"input_company_website_url": "pandora.net",

"company_name": "Pandora",

"about_company": "Pandora A/S is a Danish jewellery manufacturer and retailer founded in 1982 by Per Enevoldsen. The company started as a family-run jewellery shop in Copenhagen. Pandora is known for its customizable charm bracelets, designer rings, necklaces and watches.",

"Founded": "1982, Copenhagen, Denmark",

"Revenue": "1,900 crores DKK (2020)",

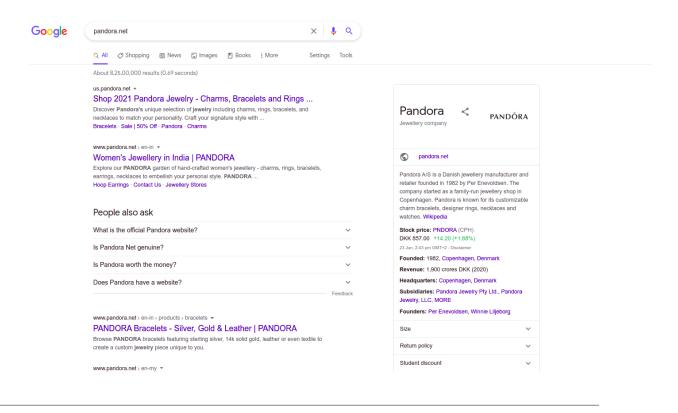
"Headquarters": "Copenhagen, Denmark",

"Subsidiaries": "Pandora Jewelry Pty Ltd., Pandora Jewelry, LLC, MORE",
```

"Founders": "Per Enevoldsen, Winnie Liljeborg"

<u>Tools & language to be used</u>: Python and any python web scraping library (like selenium)

Manual google search result: This is what you need to replicate using python and web scraping tools to get the company website url from company short name.



Assignment #3 [20 POINTS]

Two arrays are given:

A1 = ["ele11", "ele2", "ele9", "ele7", "ele12", "ele9", "ele4", "ele5", "ele5", "ele10", "ele13", "ele8", "ele3", "ele1"]

A2 = ["ele1", "ele3", "ele2", "ele11", "ele7", "ele10"]

Objective: Sort array A2 with reference to the element's order in array A1, which means all elements of A1 after shorting should be in the same order as in array A1.

Input: Above two arrays A1 and A2

Expected result:

A2_sorted = ["ele11","ele2", "ele7", "ele10", "ele3","ele1"]

Tools & language to be used: Python programming language