

Interview process:

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

Objective: 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

Tools & language to be used: 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.

The screenshot shows a Google search for 'Orbital Insight'. The search bar at the top contains the text 'Orbital Insight'. Below the search bar, the results are displayed. The first result is from 'orbitalinsight.com' with the title 'Orbital Insight | The Leader in Geospatial Data Analytics'. The description states: 'Orbital Insight analyzes billions of geospatial data points with machine learning so you can see the world as it truly is. Act with confidence on objective, timely, and ...'. Below this, there are links to 'Careers', 'Company', 'Geospatial Technology Platform', and 'Orbital Insight Blog'. The second result is from 'www.linkedin.com' with the title 'Orbital Insight | LinkedIn'. The description states: 'Orbital Insight | 10517 followers on LinkedIn. Orbital Insight helps organizations understand what's happening on and to the Earth and turn risk into new ...'. The third result is from 'en.wikipedia.org' with the title 'Orbital Insight - Wikipedia'. The description states: 'Orbital Insight is a Palo Alto, California-based geospatial analytics company. The company analyzes satellite, drone, balloon and other unmanned aerial vehicle ...'.

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

Objective: 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"

}

Tools & language to be used: 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.

The screenshot shows a Google search for 'pandora.net'. The search bar at the top contains 'pandora.net' and the Google logo. Below the search bar, there are tabs for 'All', 'Shopping', 'News', 'Images', 'Books', 'More', 'Settings', and 'Tools'. The search results show 'About 8,25,00,000 results (0.69 seconds)'. The first result is 'us.pandora.net' with the title 'Shop 2021 Pandora Jewelry - Charms, Bracelets and Rings ...'. The second result is 'www.pandora.net' with the title 'Women's Jewellery in India | PANDORA'. To the right of the search results is a knowledge panel for 'Pandora' with details about the company, its stock price, and its founders.

Google

pandora.net

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About 8,25,00,000 results (0.69 seconds)

us.pandora.net

Shop 2021 Pandora Jewelry - Charms, Bracelets and Rings ...

Discover Pandora's unique selection of jewelry including charms, rings, bracelets, and necklaces to match your personality. Craft your signature style with ...

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Explore our PANDORA garden of hand-crafted women's jewellery - charms, rings, bracelets, earrings, necklaces to embellish your personal style. PANDORA ...

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Pandora Jewellery company

pandora.net

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. Wikipedia

Stock price: PNDORA (CPH)
DKK 857.00 +14.20 (+1.68%)
23 Jun, 2:43 pm GMT+2 · Disclaimer

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 Liljeberg

Size

Return policy

Student discount

Assignment #3 [20 POINTS]

Two arrays are given:

A1 = ["ele11", "ele2", "ele9", "ele7", "ele12", "ele9", "ele4", "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 sorting 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