

General



Below are three questions testing your technical skills on well-known applications that a consultant within the Data Analytics team will utilize. Each question will test the candidate's ability to code within each application. For each question, please provide the code that produce the answers, along with the answers themselves. **You have 48 hours from the agreed time of receipt of email to complete the test.**

Python

- 1. Write code in Python for each point:
 - Scrape Search for ONGC's official website from a search engine.
 - From the search engine results,
 - Find link to official website
 - Use link to enter ONGC website to search for 2021 ONGC's annual report
 - Download ONGC's 2021 annual report, in pdf format, to the "Download" folder of your local computer.
 - Extract the information under the section where it shows all subsidiaries, joint ventures, and associates but only the following columns are relevant:
 - Name of the Company
 - Country of Incorporation
 - Proportion of ownership interest as March 31, 2021
 - Perform fuzzy matching on each subsidiary name against each of the other subsidiaries' names. Fuzzy
 matching is a technique that matches strings together that fits a particular pattern approximately. You will
 need to record:
 - "Yes" if the fuzzy match is an "approximate match", along with what the top matched name was to (i.e. the matched subsidiary name)
 - Note that you will need to define "approximate match" and explain your reasoning. Your answer can be placed in the output xlsx file in a separate tab.
 - "No" if the fuzzy match is not an approximate match

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- Output the results into the below five columns within a xlsx file:
 - Name
 - Country of Incorporation
 - Interest
 - Match (Yes / No)
 - Matched subsidiary name

☐ Sample output within xlsx

Name	Country of Incorporation	Interest	Match	Matched subsidiary name
ABC Co Ltd	India	100%	Yes	ABC Group
ABC Group	India	90%	Yes	ABC Co Ltd
XYZ Inc	USA	95%	No	

Page 2 of 2 controlrisks.com