Guidelines

- This is a take home assessment for candidates with programing background
- Candidates are encouraged to return the solution within 1-week from date received
- Programing language: Python

Evaluation criteria

- Appropriate use of classes, functions is highly valued
- Code readability with clear logic is highly valued
- Validity and completeness of the final output data is highly valued
- Shorter solution return time is not reflected (if 1-week deadline is met)
- Code runtime should be within a reasonable range (not to exceed 1 minute)
- Partial solution is also valid (please specify the completed portion)
- May submit multiple versions for demonstrating different approaches
- Deliverable expectations differ depending on applied job level

Deliverables

- Given: “sample_input” csv files attached in the email
- Goal: Reply the email with the following:
    - A single, combined, parsed csv file named “output.csv”
    - Code(s) that parsed the given input and answered all questionnaires
    - Answers to the questions can be attached in the email as text

Questionnaire

1. Parse the input data
    a. Provide a short and simple description of the process (data-types, data-structure).

2. Missing data
    a. Which columns contain missing values?
    b. Handle the missing values. Any logical solution is considered valid. Please describe the reasoning behind the applied process.

3. Non-tabular data
    a. Which column/columns contain non-tabular format data?
    b. Transform the unstructured data into a tabular format. Append additional columns to store the transformed data. The total number of rows should remain identical. Describe the applied process.

4. Please share any insights found regarding to the input data. (Optional open question)