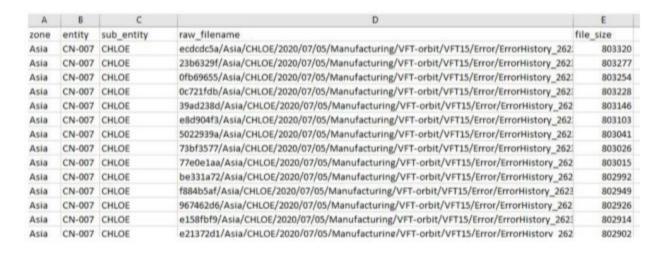# Python Examination for Basic ETL transformation

**Instructions:**

- You must use python programming language version 3.5 or 3.6.
- You can use any python data manipulation libraries to do this task.
- You can use any python framework of your choice.
- The Python Code Must be OOP.
- Once Done, Zip the source or Provide Public Git Repository URL and send it via email to: jannainah.naldo@essilor.com cc: andrew.marges@ext.essilor.com, ryan.dingle@essilor.com, howard.bayhon@essilor.com with subject: Technical Exam Assessment.
- You have a maximum of 4 days to do this examination.

**What you need to do:**

- Extract and parse the attached CSV included in this email using python script and to some data transformation and new file creation.
- The CSV file contains the head fields (zone, sub_entity, raw_filename, file_size).

| A | B | C | D | E |
|---|---|---|---|---|
| zone | entity | sub_entity | raw_filename | file_size |
| Asia | CN-007 | CHLOE | ecdcdc5a/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 803320 |
| Asia | CN-007 | CHLOE | 23b6329f/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 803277 |
| Asia | CN-007 | CHLOE | 0fb69655/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 803254 |
| Asia | CN-007 | CHLOE | 0c721fdb/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 803228 |
| Asia | CN-007 | CHLOE | 39ad238d/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262 | 803146 |
| Asia | CN-007 | CHLOE | e8d904f3/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 803103 |
| Asia | CN-007 | CHLOE | 5022939a/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 803041 |
| Asia | CN-007 | CHLOE | 73bf3577/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 803026 |
| Asia | CN-007 | CHLOE | 77e0e1aa/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262 | 803015 |
| Asia | CN-007 | CHLOE | be331a72/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262 | 802992 |
| Asia | CN-007 | CHLOE | f884b5af/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 802949 |
| Asia | CN-007 | CHLOE | 967462d6/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262 | 802926 |
| Asia | CN-007 | CHLOE | e158fbf9/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262: | 802914 |
| Asia | CN-007 | CHLOE | e21372d1/Asia/CHLOE/2020/07/05/Manufacturing/VFT-orbit/VFT15/Error/ErrorHistory_262 | 802902 |

- Upon transformation the head fields above should be UPPERCASE in the new file output.
- Your script should transform the single example file into multiple files grouped by the unique entities in the CSV file. Ex. entities unique are CHLOE and Antony-PF.
- We should expect that your script will generate CHLOE file and Antony file csvs based on the example above with the same uppercase heading(ZONE, SUB_ENTITY, RAW_FILE_NAME, FILE_SIZE).