Assessment Test for Python [P-100]

Estimated Duration: 2 to 2.5 hours

Write a python 3 code to read **input\_refresh\_template** sheet of provided excel (Analytics Template for Exercise.xlsx) and generate the output file as shown in **output\_31\_days\_report** sheet (output sheet shows sample output for two sites only – Final outcome should follow this format for all sites)

Submit the following files as the outcome of this exercise

* Final working code in python
* Input file
* Generated output file
* README.md file.
* Unit Tests written in pytest with maximum possible code coverage

The README.md file should include

* Purpose of the project (brief introduction)
* Expected input and output
* Installation steps
* Instructions to run the project
* Instructions to run tests
* Use cases and edge cases covered in the code
* Known limitations (if any)

In case you are making any assumptions please specify them clearly in code comments or a README.md file.

**Notes:**

1. Column A1 contains start date and A2 contains end date for the input data (input\_refresh\_template sheet)
2. Metrices available for each site
   1. Page Views
   2. Unique Visitors
   3. Total Time Spent
   4. Visits
   5. Average Time Spent on Site
3. Input shows 100 sites but make sure the code is flexible to process less or a greater number of sites.
4. Follow all the standard python coding practices to make the code readable and maintainable.

All the Best!!