

**Ateneo de Manila University**  
**Department of Quantitative Methods and Information Technology**

**Certificate of Authorship**

**Instructions**

- Accomplish the document completely
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<IDNumber>\_<RequirementTitle>\_COA (e.g. 12345\_Assignment1\_COA)
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- 

**Certification**






I hereby certify that the submission described in this document abides by the principles stipulated in the student handbook.

I further certify that I am the author of this submission and that any assistance I received in its preparation is fully acknowledged and disclosed in the documentation.

I have also cited all sources from which I obtained data, ideas, or words that are directly copied or paraphrased in this document. Sources are properly credited according to accepted standards for professional publication.

I am aware that any potential case of plagiarism or cheating (similar code) regarding my submission merits a 0 for the requirement and a disciplinary case filed to the Discipline Committee of the Loyola Schools.

**Student and Course Information**

<b>Course Code &amp; Section</b>	ITMGT 25.03 A		
<b>Course Instructor</b>	Joseph Benjamin R. Ilagan		
<b>Students' Full Names and Signatures</b>	Garing, Kiana Alecsandra A.	202273	
	Lumawig, Javier Miguel R.	203093	
	Vallester, Sinead Dylan P.	205306	
	Villafuerte, Lance Wesley G.	205380	
	Yu, Angela Terese N.	205524	

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### Sources






#### 1.1

- <https://www.geeksforgeeks.org/check-missing-dates-in-pandas/>
- <https://stackoverflow.com/questions/47059781/how-to-append-new-dataframe-rows-to-a-csv-using-pandas>
- <https://www.usepandas.com/csv/sort-csv-data-by-column>
- <https://stackoverflow.com/questions/27905295/how-to-replace-nans-by-preceding-or-next-values-in-pandas-dataframe>
- <https://stackoverflow.com/questions/37803040/remove-non-business-days-rows-from-pandas-dataframe>
- [https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.date\\_range.html](https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.date_range.html)
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- <https://pandas.pydata.org/docs/reference/api/pandas.DataFrame.reindex.html>
- [https://pandas.pydata.org/docs/reference/api/pandas.Series.dt.day\\_name.html#pandas.Series.dt.day\\_name](https://pandas.pydata.org/docs/reference/api/pandas.Series.dt.day_name.html#pandas.Series.dt.day_name)
- <https://stackoverflow.com/questions/53100599/applying-the-same-operations-on-multiple-csv-file-in-pandas>

#### 1.2

- <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.Grouper.html>

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**Sources (cont.)**

**1.3**

- [https://matplotlib.org/stable/api/dates\\_api.html#matplotlib.dates.date2num](https://matplotlib.org/stable/api/dates_api.html#matplotlib.dates.date2num)
- [https://matplotlib.org/stable/gallery/text\\_labels\\_and\\_annotations/date.html](https://matplotlib.org/stable/gallery/text_labels_and_annotations/date.html)





**2.1**

- <https://stackoverflow.com/questions/31175221/regex-pattern-for-philippine-phone-number/31175232>
- <https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.agg.html>
- <https://stackoverflow.com/questions/39512002/convert-whole-dataframe-from-lower-case-to-upper-case-with-pandas>

**2.2**

- <https://stackoverflow.com/questions/37787698/how-to-sort-pandas-dataframe-from-one-column>
- <https://careerkarma.com/blog/python-remove-duplicates-from-list/>
- [https://www.geeksforgeeks.org/python-pandas-dataframe-drop\\_duplicates/](https://www.geeksforgeeks.org/python-pandas-dataframe-drop_duplicates/)

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