

Ateneo de Manila University  
Department of Quantitative Methods and Information Technology

**Certificate of Authorship**

**Instructions**

- Accomplish the document completely
  - Save the document as a .pdf file with the following name format:  
<IDNumber>\_<RequirementTitle>\_COA (e.g. 12345\_Assignment1\_COA)
  - Attach this document to each course requirement submission unless otherwise specified by the Course Instructor
- 

**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.

**Sources**

- <https://stackoverflow.com/questions/39922967/python-determine-tic-tac-toe-winner#:~:text=You%20can%20just%20make%20a,the%20game%20has%20been%20won.&text=This%20will%20return%20%22O%22%20if,%22%2C%20and%20%2D1%20otherwise.>

**Student and Course Information**

Course Code & Section	ITMGT 45 - A
Course Instructor	Sir Joben Ilagan
Student's Full Name	Gabrielle Bernice S. Lucas
Signature	

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- For Num 2: I asked my classmate, Nirel, for some help due to the fact that I can't figure it out on my own. She did not give and tell me her codes for this exercise. She only told me was the process of she coded it. I am not fully sure but there may be some similarities of my code to her.

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