**Project 6B | Wolfram Alpha API**

For this project –

* Complete this tutorial – Build Your Next Project with Wolfram Alpha API & Python
  + **You will need an API key** to complete this project - Request for one immediately – See **Setting Up** section
  + <https://towardsdatascience.com/build-your-next-project-with-wolfram-alpha-api-and-python-51c2c361d8b9>
* Research and learn more about their **Conversational API and Full Results API**
* Enhance your project by utilizing additional services using **both of the** **Conversational API and Full Results API**
  + I am here to encourage you to experiment, therefore, I am not too concern as to exactly what you choose to do
  + **Be sure to discuss these activities in your write-up**
* Grading
  + 33% for completing the tutorial
  + 33% for making two or more additional services using the **Conversational API**
  + 33% for making two or more additional services using the **Full Results API**
* You will need to submit either a .py or .ipynb file for this assignment

**Academic Honesty Policy Reminder** | **Do your own work** – each submitted project will be compared against other submissions from current and previous semesters

**Python Expectations**

* A working .py or .ipynb
* Apply what you have learned

**Assumptions**

* What other assumption(s) do you need to make?

**Concepts Utilized in Project**

* Previously covered course topics
* API

**Write-up & Submission Requirements**

Review the provided rubric and understand project expectations, including documentation, CMSC206, and programming requirements.

Two artifacts MUST BE submitted for this project – Python code and a write-up.

At a minimum, the write-up needs to address -

* Approach, design & algorithm
  + **DO NOT** start coding your project immediately! Come up with a high level design of the project first
    - What’s your game plan to complete the project?
    - Break the project into smallest modules where applicable
  + **Complete this step first, then write your code**
  + Each student is welcome to expand on the design, if it makes sense. Students will not be penalized for going “above and beyond” the specifications of the project
* Test plan & test cases
  + What test cases did you run?
  + Capture test runs as screenshots in your write-up, as you run your test cases
  + I want to understanding your “thinking,” as to how you are testing your program
  + Each submission should be rock solid, with “zero bugs”
  + **I am a typical user and will be able to break your code with ease**
* Any assumptions that you are making for this project
* Highlight your learning experience and lessons learned
  + **I am very interested to learn about what you have done, how you did, etc.**
* Anything else that you want to share with me

Each student must submit one compressed (.zip) file back to the Assignment (link) with the following deliverables:

* Source code
* Write-up (in Word or PDF – one write-up per project)
* Name the compressed file as <lastname>\_project\_x
  + where x is the project number and your last name (e.g., Thai\_Project\_1.zip)
* Review provided instructions on how to submit the project carefully (don’t assume anything)
* **Double check your submission. I can only grade what’s being submitted**
* **I MUST BE able to compile, run and test every submitted project on my computer using a set of test cases.** Just as important, I READ your write-up first

**Not clear? That’s okay, but do ask your questions. “I did not know” or “I did not understand” is not good enough.**

Start working on each project immediately so that we can discuss any concerns or questions you have!

**Sample Test Runs (None)**

* None available at this time