



Aror University of Art, Architecture, Design & Heritage Sukkur.

Department of Artificial Intelligence and Multimedia Gaming

Programming for AI (Spring-2025)

LAB#08

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Objective of Lab No. 8:

After performing lab8, students will be able to:

- Work with APIs in python
- Make requests using requests module
- Handle response using json format

Task#01: Build a kanye quotes app:

1. Create a GUI using tkinter:
 - a. Label for quote
 - b. Button for generating a new quote every time
2. As soon as the user clicks the button, new quote appears each time, the quote comes from the following api:
 - a. <https://api.kanye.rest>
3. Make sure if the network is down or there is a problem, then instead of quote the following message should appear:
 - a. "Something went wrong, Please Try Again Latter"

Task#02: Build a sunrise and sunset App:

1. Create a GUI using tkinter with following requirements:
 - a. Label for country name and entry for country
 - b. Label for latitude and entry for latitude
 - c. Label for longitude and entry for longitude
 - d. Get Sunrise button, which may display the sunrise time in a dialog box
 - e. Get Sunset button, which may display the sunset time in a dialog box
2. Sunset and Sunrise time come from the API which is:



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- a. <https://api.sunrise-sunset.org/json>
3. Make sure if the network is down or there is a problem, the following message should appear:
 - a. "Something went wrong, Please Try Again Latter"

Task#03: Build a Quiz App:

1. Head over to www.opentdb.com:
 - a. Generate an API URL by providing some basic information about the data you want, make sure you only make True/False Questions:

The screenshot shows the Open Trivia Database API documentation page. At the top, there's a green box labeled 'API URL GENERATED:' containing the URL 'https://opentdb.com/api.php?amount=10&type=boolean'. Below this, the text 'Trivia API' is followed by a description: 'The Open Trivia Database provides a completely free JSON API for use in programming projects. Use of this API does not require a API Key, just generate the URL below use it in your own application to retrieve trivia questions.' There's also a license notice: 'All data provided by the API is available under the Creative Commons Attribution-ShareAlike 4.0 International License.' Below the text is a dark blue section titled 'API DOCUMENTATION' and 'API Helper'. Under 'API Helper', there are three input fields: 'Number of Questions:' with the value '10', 'Select Category:' with a dropdown menu showing 'Any Category', and 'Select Difficulty:' with a dropdown menu showing 'Any Difficulty'.

- b. Display each question in GUI, If the user guesses it correctly Increase the score by one,
- c. When the game is done, display the percentage of the player in a dialog box, disable the buttons on the GUI
- d. Your GUI is something like this:



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Score: 2

*In Alfred Hitchcock's film
'Psycho' it is said he used
chocolate syrup to simulate the
blood in the famous shower
scene from*

