

Python Dictionaries - Music Playlist

I would like you to create a music playlist using Python dictionaries. This will help you understand how to work with dictionaries, store and manipulate data, and perform basic operations on them.

Instructions:

1. Understanding Python Dictionaries:

- Before you begin, research what a Python dictionary is. Look up how to create a dictionary, add items to it, access values, and update values.
- Resource: <https://www.programiz.com/python-programming/dictionary>

2. Setting Up Your Playlist:

- Create a new Python file for this task.
- Define a dictionary called 'playlist' where each key will be a song title and the value will be another dictionary containing the artist and genre of the song.
- Resource: <https://www.programiz.com/python-programming/nested-dictionary>

3. Adding Songs to the Playlist:

- Write a function called 'add_song' that takes three parameters: 'title', 'artist', and 'genre'. This function should add a new song to the playlist dictionary.

4. Viewing the Playlist:

- Write a function called 'view_playlist' that prints out all the songs in the playlist in a readable format.

5. Updating Song Information:

- Write a function called 'update_song' that allows you to update the artist or genre of a specific song. This function should take the title of the song to be updated and the new artist or genre as parameters.

6. Deleting a Song from the Playlist:

- Write a function called 'delete_song' that takes a song title as a parameter and removes that song from the playlist.

7. Testing Your Functions:

- Use the functions you've created to add, view, update, and delete songs from your playlist. Make sure everything works as expected.

Guidance:

- **Research and Use Resources:** Whenever you encounter a challenge or are unsure how to proceed, use online resources to research the necessary methods or functions. This practice will help you become more self-sufficient and better at problem-solving.
- **Ask for Help:** If you're stuck and can't find a solution after researching, please feel free to reach out and I will be happy to point you in the right direction.