Class Exercise:

Streaming service

Exercise Description:

You work at a music streaming service and have been tasked with creating a program to manage user playlists. Your program should allow the user to perform various operations on a set of songs in a playlist, including adding songs, removing songs, and checking if a specific song is in the playlist.

Here are the steps to follow:

1. Create an empty set called playlist to store the songs.
2. Use a while loop to repeat the following operations until the user chooses to exit:

* Display a menu of options to the user:
  + Add song
  + Remove song
  + Check if song exists
  + Exit
* Ask the user to select an option by entering the corresponding number.
* Based on the user's choice, perform the corresponding operation.
* Display the result to the user.

playlist = set()

while True:

    print("\nMenu:")

    print("1. Add song")

    print("2. Remove song")

    print("3. Check if song exists")

    print("4. Exit")

    choice = int(input("\nEnter your choice: "))

    if choice == 1:

# Your code here

    elif choice == 2:

# Your code here

    elif choice == 3:

# Your code here

    elif choice == 4:

# Your code here

Menu:

1. Add song

2. Remove song

3. Check if song exists

4. Exit

Enter your choice: 1

Enter the name of the song to add: Shape of You

'Shape of You' has been added to the playlist.

Menu:

1. Add song

2. Remove song

3. Check if song exists

4. Exit

Enter your choice: 1

Enter the name of the song to add: Despacito

'Despacito' has been added to the playlist.

Menu:

1. Add song

2. Remove song

3. Check if song exists

4. Exit

Enter your choice: 2

Enter the name of the song to remove: Shape of You

'Shape of You' has been removed from the playlist.

Menu:

1. Add song

2. Remove song

3. Check if song exists

4. Exit

Enter your choice: 3

Enter the name of the song to check: Shape of You

'Shape of You' is not in the playlist.

Menu:

1. Add song

2. Remove song

3. Check if song exists

4. Exit

Enter your choice: 4

Exiting the program. Thank you!