

Title

Music Store Album Collection Using Non-Generic Collections

Question No : 1 / 1

Problem Statement

You are developing a software for a **music store**.

The store has a collection of **albums**, and each album has a **Title** and an **Artist**.

The store wants to keep track of all the albums it has and wants the ability to **add new albums dynamically**.

The program should be written within the **Program class** in the **Program.cs** file.

Constraints

- All classes must be public
 - All methods must be private and static
 - Use **ArrayList** to store album objects
 - **Do not use generic collections**
 - Input validation must be performed
-

Requirements

1. Create Album Class

- Create a class named `Album`
 - Properties:
 - `Title`
 - `Artist`
-

2. Collection Creation

- Create an `ArrayList` to store instances of `Album`
-

3. Input Album Details

- Prompt the user to enter:
 - Album title
 - Artist name
 - Continue accepting album details until the user enters:
 - `quit`
-

4. Validation

- Create a method:

```
IsValidInput(string input)
```

- Validate that input is **not null or whitespace**
 - Only valid albums should be added to the collection
-

5. Display Albums

- Create a method:

```
DisplayAlbums(ArrayList albums)
```

- Display album details in the following format:

```
Title: {Title}, Artist: {Artist}
```

Input Format

- Album title (string)
 - Artist name (string)
 - The keyword `quit` to stop entering albums
-

Output Format

Display all albums in the following format:

```
Title: {Title}, Artist: {Artist}
```

Test Cases

Test Case ID	Input	Expected Output
TC01	Album + Artist entered, then <code>quit</code>	Album displayed correctly
TC02	Multiple albums entered	All albums displayed
TC03	Empty title or artist	Album not added
TC04	<code>quit</code> immediately	No output

Sample Input 1

```
The Dark Side of the Moon
Pink Floyd
Thriller
Michael Jackson
Abbey Road
The Beatles
quit
```

Sample Output 1

```
Title: The Dark Side of the Moon, Artist: Pink Floyd
Title: Thriller, Artist: Michael Jackson
Title: Abbey Road, Artist: The Beatles
```

Sample Input 2

```
title 1
artist 1
title 2
artist 2
quit
```

Sample Output 2

```
Title: title 1, Artist: artist 1
Title: title 2, Artist: artist 2
```

class Album

{

public string Title{*get;set;*}

public string Artist{*get;set;*}

public Album(string *title*,string *artist*)

{

Artist = *artist*;

Title = *title*;

}

}

using System.Collections;

class Program

{

private static bool IsValidInput(string *input*)

{

return !string.IsNullOrEmpty(*input*);

}

private static void DisplayAlbums(ArrayList *albums*)

{

foreach (Album a in *albums*)

{

```

        Console.WriteLine("Title: {0}, Artist: {1}",a.Title,a.Artist);
    }
}

static void Main()
{
    ArrayList albums = new ArrayList();

    while (true)
    {
        string title = Console.ReadLine() ?? "";
        if(title.ToLower() == "quit") break;
        string artist = Console.ReadLine() ?? "";
        if (!IsValidInput(title) || !IsValidInput(artist)) continue;
        albums.Add(new Album(title, artist));
    }

    DisplayAlbums(albums);
}
}

```