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Weekly 1 - date-08-08-25

**create a console application and fetch data from server url
<https://jsonplaceholder.typicode.com/posts> using async task and print in console**

Program.cs

```
using System;

using System.Collections.Generic;

using System.Net.Http;

using System.Text.Json;

using System.Threading.Tasks;


// Define model class matching the JSON structure
public class Post
{
    public int UserId { get; set; }

    public int Id { get; set; }

    public string Title { get; set; }

    public string Body { get; set; }
}


class Program
{
    static async Task Main(string[] args)
    {
        string url = "https://jsonplaceholder.typicode.com/posts";

        try
```

```

{
    List<Post> posts = await FetchPostsAsync(url);

    foreach (var post in posts)
    {
        Console.WriteLine($"Post #{post.Id}");
        Console.WriteLine($"Title: {post.Title}");
        Console.WriteLine($"Body: {post.Body}");
        Console.WriteLine(new string('-', 40));
    }
}
catch (Exception ex)
{
    Console.WriteLine($"Error fetching data: {ex.Message}");
}
}

```

```

static async Task<List<Post>> FetchPostsAsync(string url)
{
    using HttpClient client = new HttpClient();

    var response = await client.GetAsync(url);

    response.EnsureSuccessStatusCode(); // Throw if not success (4xx or 5xx)

    string json = await response.Content.ReadAsStringAsync();

    var posts = JsonSerializer.Deserialize<List<Post>>(json, new JsonSerializerOptions

```

```

    {
        PropertyNameCaseInsensitive = true
    });

    return posts ?? new List<Post>();
}
}

```

Output

```

Post #1
Title: sunt aut facere repellat provident occaecati ex
Body: quia et suscipit
suscipit recusandae consequuntur expedita et cum
reprehenderit molestiae ut ut quas totam
nostrum rerum est autem sunt rem eveniet architecto
-----
Post #2
Title: qui est esse
Body: est rerum tempore vitae
sequi sint nihil reprehenderit dolor beatae ea dolores
fugiat blanditiis voluptate porro vel nihil molestiae
qui aperiam non debitis possimus qui neque nisi nulla
-----
Post #3
Title: ea molestias quasi exercitationem repellat qui
Body: et iusto sed quo iure
voluptatem occaecati omnis eligendi aut ad
voluptatem doloribus vel accusantium quis pariatur
molestiae porro eius odio et labore et velit aut
-----
Post #4
Title: eum et est occaecati
Body: ullam et saepe reiciendis voluptatem adipisci
sit amet autem assumenda provident rerum culpa
quis hic commodi nesciunt rem tenetur doloremque ipsam
quis sunt voluptatem rerum illo velit
-----
Post #5

```