

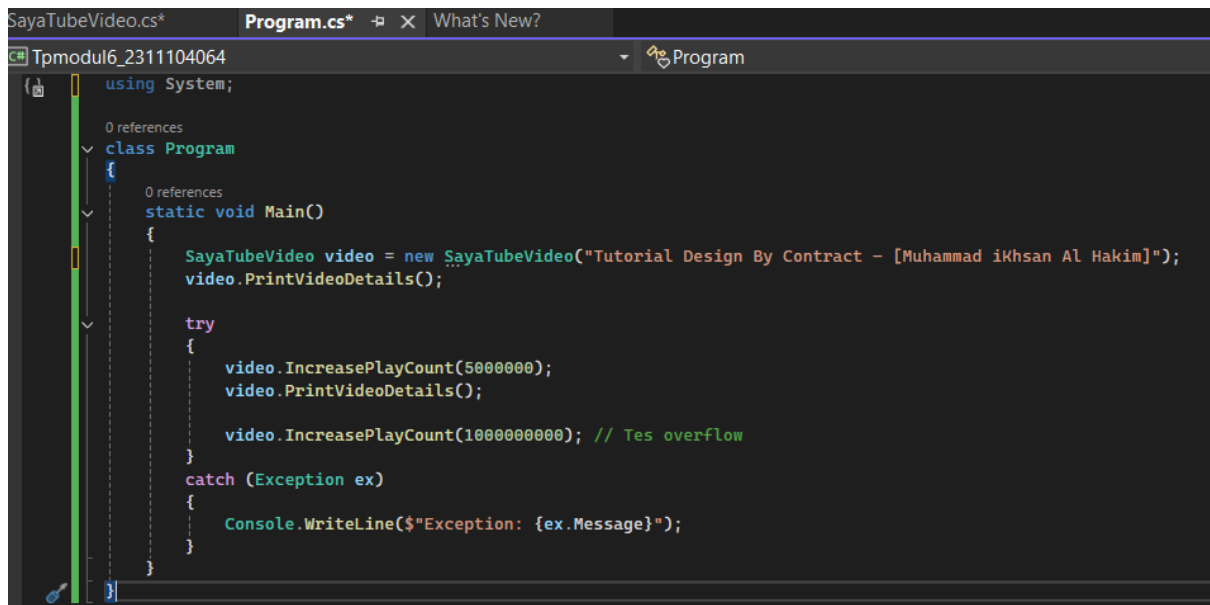
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1. Code program



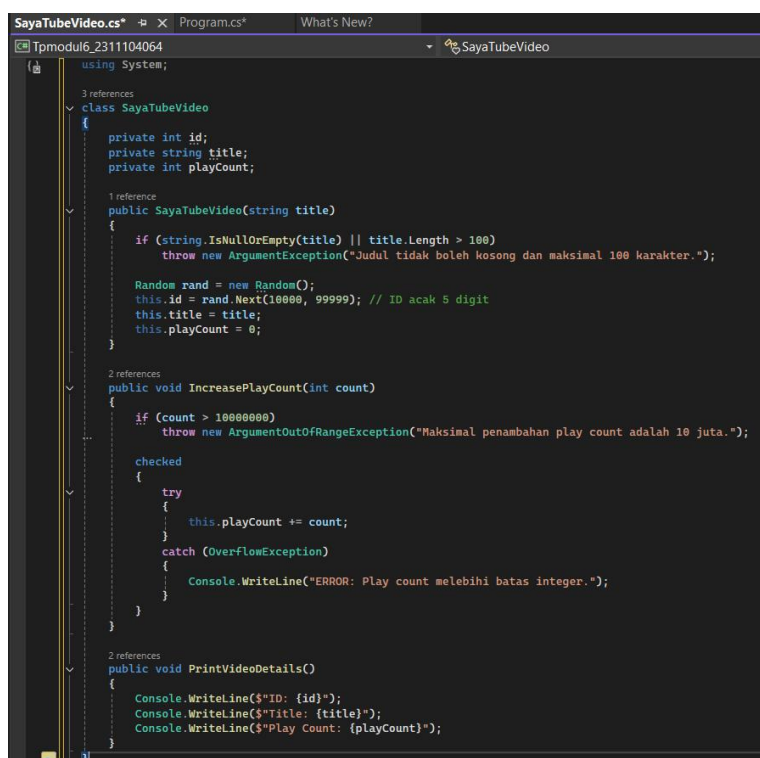
```
using System;

class Program
{
    static void Main()
    {
        SayaTubeVideo video = new SayaTubeVideo("Tutorial Design By Contract - [Muhammad ikhsan Al Hakim]");
        video.PrintVideoDetails();

        try
        {
            video.IncreasePlayCount(50000000);
            video.PrintVideoDetails();

            video.IncreasePlayCount(10000000000); // Tes overflow
        }
        catch (Exception ex)
        {
            Console.WriteLine($"Exception: {ex.Message}");
        }
    }
}
```

2. Code SayaTubeVideo



```
using System;

class SayaTubeVideo
{
    private int id;
    private string title;
    private int playCount;

    public SayaTubeVideo(string title)
    {
        if (string.IsNullOrEmpty(title) || title.Length > 100)
            throw new ArgumentException("Judul tidak boleh kosong dan maksimal 100 karakter.");

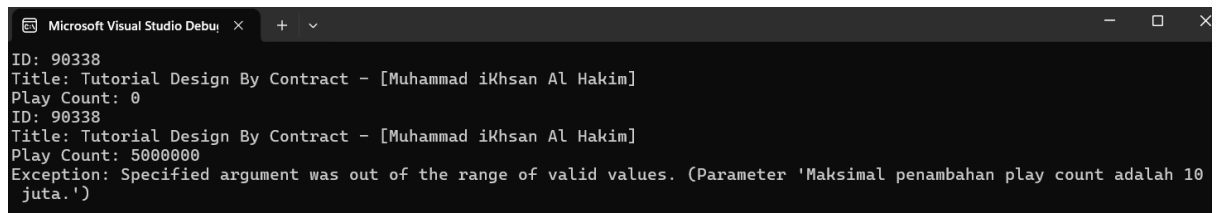
        Random rand = new Random();
        this.id = rand.Next(10000, 99999); // ID acak 5 digit
        this.title = title;
        this.playCount = 0;
    }

    public void IncreasePlayCount(int count)
    {
        if (count > 100000000)
            throw new ArgumentOutOfRangeException("Maksimal penambahan play count adalah 10 juta.");

        checked
        {
            try
            {
                this.playCount += count;
            }
            catch (OverflowException)
            {
                Console.WriteLine("ERROR: Play count melebihi batas integer.");
            }
        }
    }

    public void PrintVideoDetails()
    {
        Console.WriteLine($"ID: {id}");
        Console.WriteLine($"Title: {title}");
        Console.WriteLine($"Play Count: {playCount}");
    }
}
```

3. Output



```
Microsoft Visual Studio Debug Console
ID: 90338
Title: Tutorial Design By Contract - [Muhammad iKhsan Al Hakim]
Play Count: 0
ID: 90338
Title: Tutorial Design By Contract - [Muhammad iKhsan Al Hakim]
Play Count: 5000000
Exception: Specified argument was out of the range of valid values. (Parameter 'Maksimal penambahan play count adalah 10 juta.')
```