

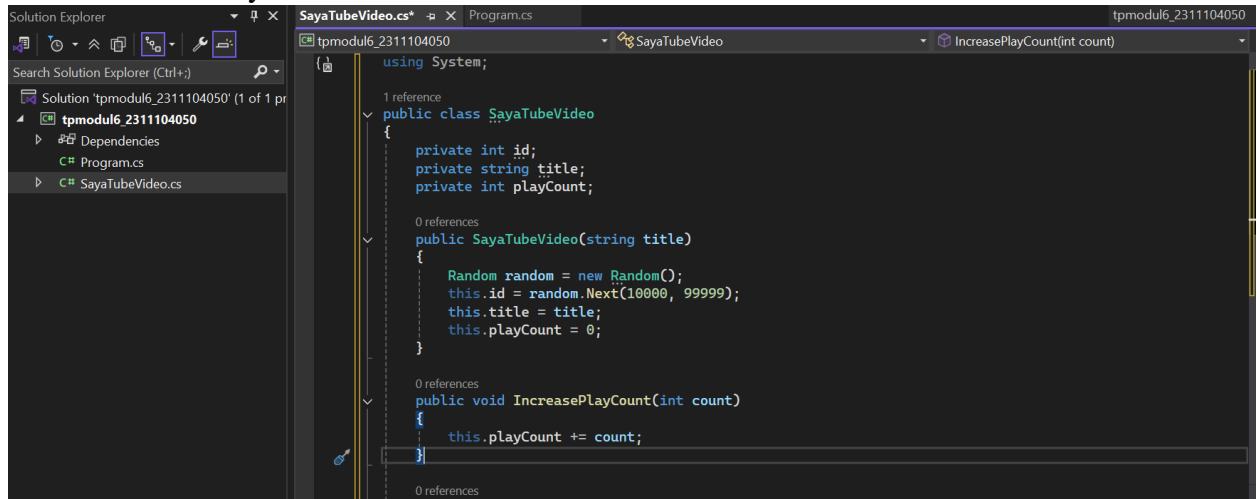
Putra Strata Tandika Setyawan

2311104050

S1SE0702

TP KPL Modul 6

1. Membuat Class SayaTubeVideo.cs



Berikut adalah kode yang ditambahkan dalam class

```
using System;

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

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

        Random random = new Random();
        this.id = random.Next(10000, 99999);
        this.title = title;
        this.playCount = 0;
    }

    public void IncreasePlayCount(int count)
    {
        // Prekondisi: maksimal 10 juta per pemanggilan
        if (count > 10000000)
            throw new ArgumentOutOfRangeException("Penambahan play count maksimal 10 juta.");

        try
```

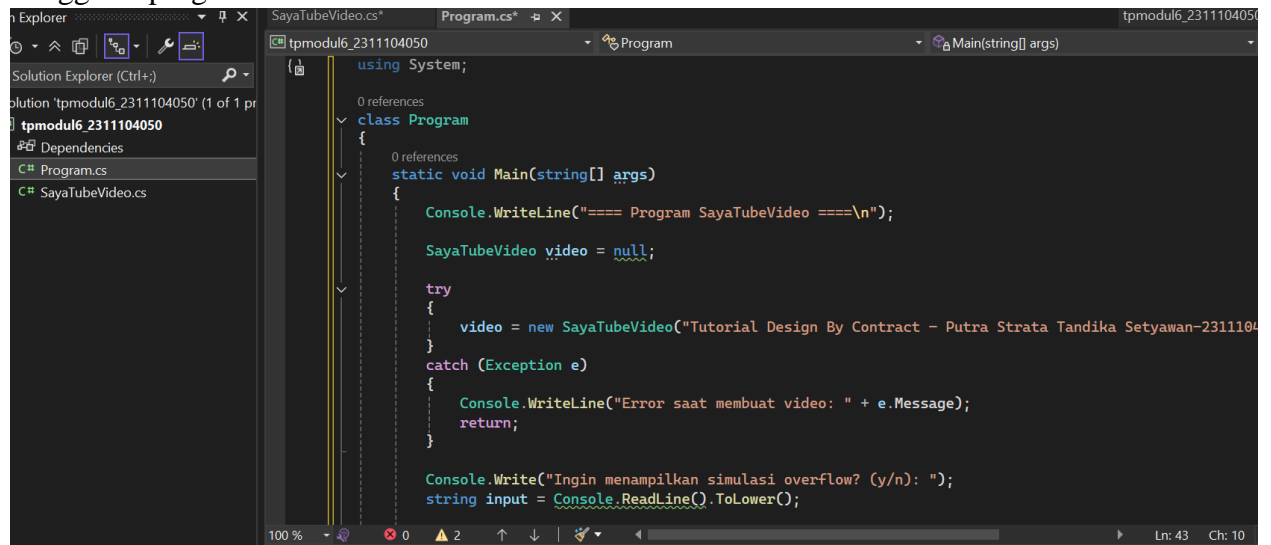
```

        {
            checked
            {
                this.playCount += count;
            }
        }
    }
    catch (OverflowException e)
    {
        Console.WriteLine("Terjadi overflow: " + e.Message);
    }
}

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

```

Panggil di program.cs



Outputnya

```

==== Program SayaTubeVideo ====

Ingin menampilkan simulasi overflow? (y/n): n
ID: 30358
Title: Tutorial Design By Contract - Putra Strata Tandika Setyawan-2311104050
Play Count: 5000

Program selesai.

D:\Setya\Clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\06_Design_by_Contract_dan_Defensive_Programming
2311104050\tpmodul6_2311104050\bin\Debug\net8.0\tpmodul6_2311104050.exe (process 15716) exited with code 0
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically cl
e when debugging stops.
Press any key to close this window . . .

```

Ini output jika memilih menampilkan overflow

[illegible]