

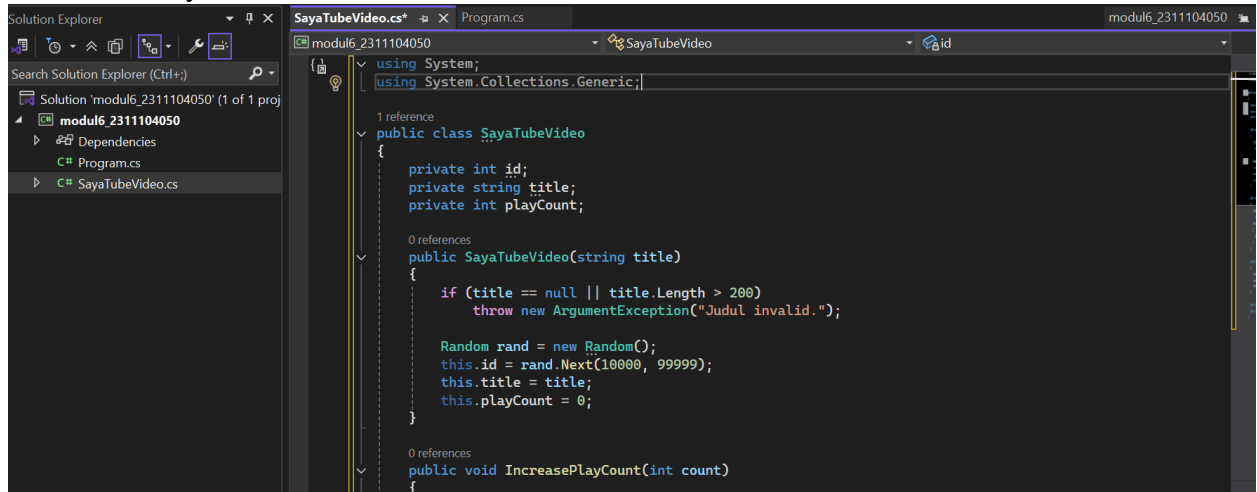
Putra Strata Tandika Setyawan

2311104050

S1SE0702

Jurnal Modul 6

## 1. Buat Class SayaTubeVideo



Kodenya

```
using System;
using System.Collections.Generic;

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

    public SayaTubeVideo(string title)
    {
        if (title == null || title.Length > 200)
            throw new ArgumentException("Judul invalid.");

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

    public void IncreasePlayCount(int count)
    {
        if (count < 0 || count > 25000000)
            throw new ArgumentException("Jumlah play tidak valid.");
        checked
        {
            playCount += count;
        }
    }
}
```

```

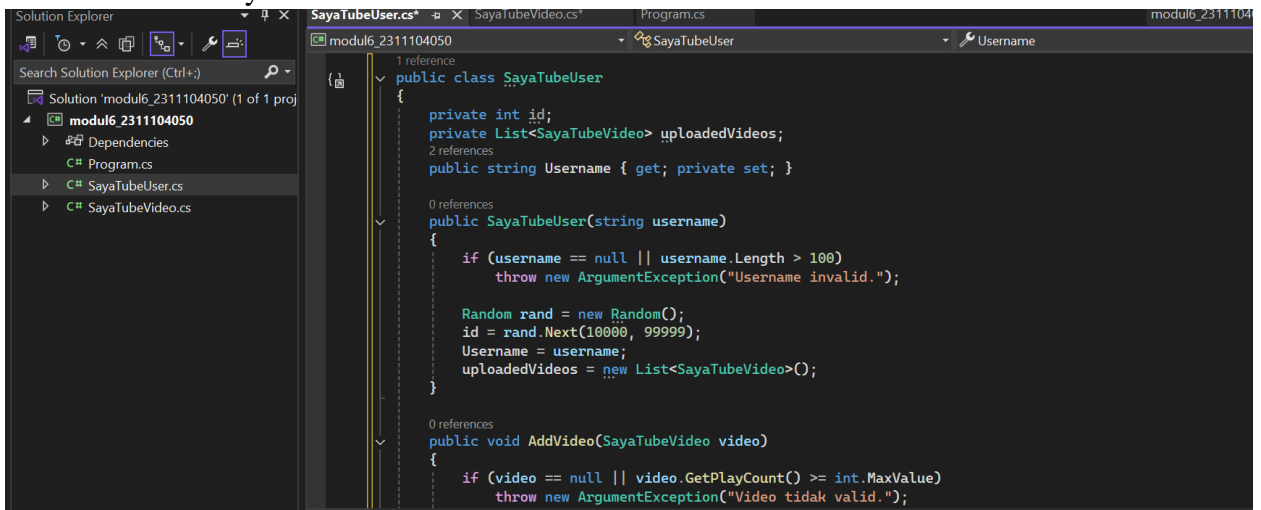
    }

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

    public int GetPlayCount() => playCount;
    public string GetTitle() => title;
}

```

## 2. Membuat Class SayaTubeUser



Kodenya

```

public class SayaTubeUser
{
    private int id;
    private List<SayaTubeVideo> uploadedVideos;
    public string Username { get; private set; }

    public SayaTubeUser(string username)
    {
        if (username == null || username.Length > 100)
            throw new ArgumentException("Username invalid.");

        Random rand = new Random();
        id = rand.Next(10000, 99999);
        Username = username;
        uploadedVideos = new List<SayaTubeVideo>();
    }

    public void AddVideo(SayaTubeVideo video)
    {
        if (video == null || video.GetPlayCount() >= int.MaxValue)
            throw new ArgumentException("Video tidak valid.");
        uploadedVideos.Add(video);
    }
}

```

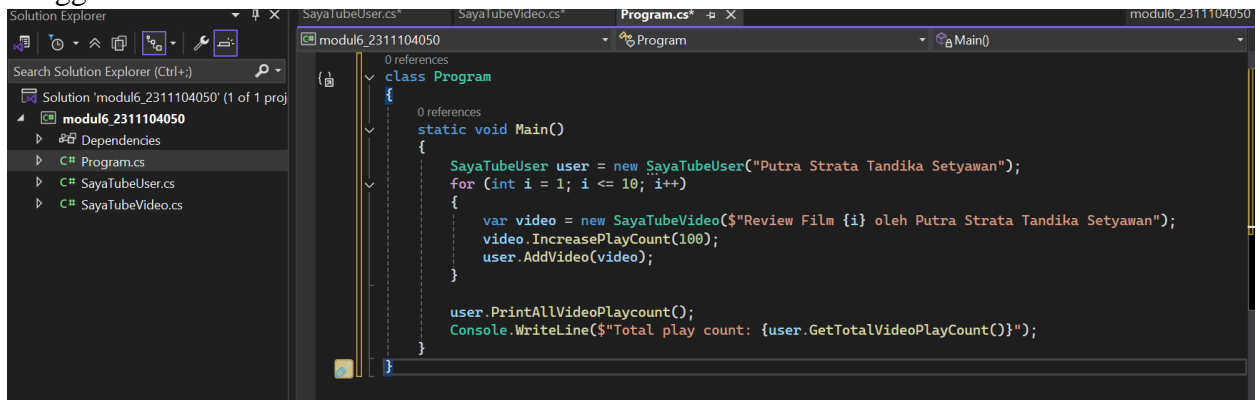
```

public int GetTotalVideoPlayCount()
{
    int total = 0;
    foreach (var v in uploadedVideos)
        total += v.GetPlayCount();
    return total;
}

public void PrintAllVideoPlaycount()
{
    Console.WriteLine($"User: {Username}");
    for (int i = 0; i < uploadedVideos.Count && i < 8; i++)
    {
        Console.WriteLine($"Video {i + 1} judul:
{uploadedVideos[i].GetTitle()}");
    }
}
}

```

### 3. Panggil Method kedalam main



### Outputnya

```

User: Putra Strata Tandika Setyawan
Video 1 judul: Review Film 1 oleh Putra Strata Tandika Setyawan
Video 2 judul: Review Film 2 oleh Putra Strata Tandika Setyawan
Video 3 judul: Review Film 3 oleh Putra Strata Tandika Setyawan
Video 4 judul: Review Film 4 oleh Putra Strata Tandika Setyawan
Video 5 judul: Review Film 5 oleh Putra Strata Tandika Setyawan
Video 6 judul: Review Film 6 oleh Putra Strata Tandika Setyawan
Video 7 judul: Review Film 7 oleh Putra Strata Tandika Setyawan
Video 8 judul: Review Film 8 oleh Putra Strata Tandika Setyawan
Total play count: 1000

D:\Setya\Clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\06_Design_by_Contract_dan_Defensive_Programming\Jurnal\modul
6_2311104050\modul6_2311104050\bin\Debug\net8.0\modul6_2311104050.exe (process 2896) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console
when debugging stops.
Press any key to close this window . . .

```