

Nama: Nur Ilmi Mufidah

NIM: 103022300005

Kelas: Se-47-03

Kode Asprak: CAR

Link github: [https://github.com/NurIlmiM/MOD6\\_103022300005.git](https://github.com/NurIlmiM/MOD6_103022300005.git)

```
1 using System;
2
3 24 references
4 class SayaTubeVideo
5 {
6     private int id;
7     private string title;
8     private int playCount;
9
10 10 references
11 public SayaTubeVideo(string title)
12 {
13     Random rand = new Random();
14     this.id = rand.Next(10000, 99999);
15     this.title = title;
16     this.playCount = 0;
17 }
18
19 5 references
20 public void IncreasePlayCount(int count)
21 {
22     if (count < 0 || count > 10000000)
23     {
24         throw new ArgumentOutOfRangeException("Jumlah play count harus antara 1 - 10.000.000");
25     }
26
27     checked
28     {
29         playCount += count;
30     }
31 }
32
33 1 reference
34 public void PrintVideoDetails()
35 {
36     Console.WriteLine("Video ID: " + id);
37     Console.WriteLine("Title: " + title);
38     Console.WriteLine("Play Count: " + playCount);
39 }
40
41 1 reference
42 public int GetPlayCount()
43 {
44     return playCount;
45 }
46 }
```

```

3 references
43 class SayaTubeUser
44 {
45     private int id;
46     private string username;
47     private List<SayaTubeVideo> uploadVideos;
48
49     1 reference
50     public SayaTubeUser(string username)
51     {
52         Random rand = new Random();
53         this.id = rand.Next(10000, 99999);
54         this.username = username;
55         this.uploadVideos = new List<SayaTubeVideo>();
56
57     10 references
58     public void AddVideo(SayaTubeVideo video)
59     {
60         if (video == null)
61         {
62             throw new ArgumentNullException("Video tidak boleh null!");
63         }
64         uploadVideos.Add(video);
65
66     1 reference
67     public int GetTotalVideoPlayCount()
68     {
69         int totalPlayCount = 0;
70         foreach (var video in uploadVideos)
71         {
72             totalPlayCount += video.GetPlayCount();
73         }
74         return totalPlayCount;
75
76     1 reference

```

```

75
76 1 reference
public void PrintAllVideoPlaycount()
77 {
78     Console.WriteLine("User: " + username);
79     int index = 1;
80     foreach (var video in uploadVideos)
81     {
82         Console.WriteLine("video {index} judul: {video.GetTitle()}");
83         index++;
84     }
85 }
86
87
88 0 references
class Program
89 {
90     0 references
    static void Main()
91     {
92         SayaTubeUser user = new SayaTubeUser("Nur Ilmi Mufidah");
93
94         SayaTubeVideo video1 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
95         SayaTubeVideo video2 = new SayaTubeVideo("Review Film Delisa oleh Nur Ilmi Mufidah");
96         SayaTubeVideo video3 = new SayaTubeVideo("Review Film negeri 5 menara oleh Nur Ilmi Mufidah");
97         SayaTubeVideo video4 = new SayaTubeVideo("Review Film Jembatan Pensil oleh Nur Ilmi Mufidah");
98         SayaTubeVideo video5 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
99         SayaTubeVideo video6 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
100        SayaTubeVideo video7 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
101        SayaTubeVideo video8 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
102        SayaTubeVideo video9 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
103        SayaTubeVideo video10 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
104

```

```

103        SayaTubeVideo video10 = new SayaTubeVideo("Review Film Moana oleh Nur Ilmi Mufidah");
104
105        user.AddVideo(video1);
106        user.AddVideo(video2);
107        user.AddVideo(video3);
108        user.AddVideo(video4);
109        user.AddVideo(video5);
110        user.AddVideo(video6);
111        user.AddVideo(video7);
112        user.AddVideo(video8);
113        user.AddVideo(video9);
114        user.AddVideo(video10);
115
116        video1.IncreasePlayCount(5000);
117        video2.IncreasePlayCount(7000);
118        video3.IncreasePlayCount(8000);
119        video4.IncreasePlayCount(9000);
120        video5.IncreasePlayCount(10000);
121
122        Console.WriteLine("Detail Video: ");
123        video1.PrintVideoDetails();
124
125        Console.WriteLine("\nTotal Play Count: " + user.GetTotalVideoPlayCount());
126
127        Console.WriteLine("\nDaftar Video: ");
128        user.PrintAllVideoPlaycount();
129    }
130 }
131

```

```

Detail Video:
Video ID: 88739
Title: Review Film Moana oleh Nur Ilmi Mufidah
Play Count: 5000

Total Play Count: 39000

Daftar Video:
User: Nur Ilmi Mufidah
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}
video {index}judul: {video.GetTitle()}

C:\Users\HUAWEI\Documents\Semester 4\Praktikum KPL (online)\Modul6_10302230
ul6_103022300005.exe (process 3596) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Opti
le when debugging stops.

```

Penjelasan: kodingan di atas memiliki 2 kelas SayaTubeVideo buat nyimpen info video(ID, judul, dan jumlah penonton) dan kelas satu lagi SayaTubeUser buat nyimpen daftar video yang di unggah user. Di program utama nambahin 10 video dan menampilkan data yang udah di buat