

Kevin Jonson

2311104021

JM6

```
[Running] node "d:\kevinjonson\KPL_KevinJonson_2311104021\06_DBC\JM\Main.js"
User: Kevin Jonson
Video 1 judul: Review Film Misteri Si Ajaib oleh Kevin Jonson
Video 2 judul: Review Film Legenda Pahlawan Terbang oleh Kevin Jonson
Video 3 judul: Review Film Rahasia Monster Terlarang oleh Kevin Jonson
Video 4 judul: Review Film Perjalanan Si Terlarang oleh Kevin Jonson
Video 5 judul: Review Film Petualangan Si Menakutkan oleh Kevin Jonson
Video 6 judul: Review Film Kisah Si Ajaib oleh Kevin Jonson
Video 7 judul: Review Film Rahasia Si Ajaib oleh Kevin Jonson
Video 8 judul: Review Film Kehidupan Monster Ajaib oleh Kevin Jonson
Total Play Count: 250000000
```

```
06_DBC > JM > JS Main.js > generateRandomTitle > words1
1  import SayaTubeVideo from './SayaTubeVideo.js';
2  import SayaTubeUser from './SayaTubeUser.js';
3
4  function generateRandomTitle() {
5      const words1 = ["Petualangan", "Kisah", "Legenda", "Rahasia", "Misteri", "Perjalanan", "Kehidupan"];
6      const words2 = ["Sang", "Si", "Anak", "Pahlawan", "Monster", "Dukun", "Malaikat"];
7      const words3 = ["Terakhir", "Ajaib", "Terlarang", "Tersembunyi", "Terbang", "Berbahaya", "Menakutkan"];
8
9      const randomWord1 = words1[Math.floor(Math.random() * words1.length)];
10     const randomWord2 = words2[Math.floor(Math.random() * words2.length)];
11     const randomWord3 = words3[Math.floor(Math.random() * words3.length)];
12
13     return `${randomWord1} ${randomWord2} ${randomWord3}`;
14 }
15
16 try {
17     const user = new SayaTubeUser("Kevin Jonson");
18
19     for (let i = 0; i < 10; i++) {
20         let video = new SayaTubeVideo(`Review Film ${generateRandomTitle()} oleh Kevin Jonson`);
21
22         for (let j = 0; j < 10; j++) {
23             try {
24                 video.IncreasePlayCount(25000000);
25             } catch (error) {
26                 console.error(`Error saat menambah play count pada video ${i + 1}: ${error.message}`);
27                 break;
28             }
29         }
30
31         user.AddVideo(video);
32     }
33
34     user.PrintAllVideoPlaycount();
35     console.log(`Total Play Count: ${user.GetTotalVideoPlayCount()}`);
36 } catch (error) {
37     console.error("Error:", error.message);
38 }
```

06_DBC > JM > JS SayaTubeUser.js > ...

```
1  import SayaTubeVideo from './SayaTubeVideo.js';
2
3  export default class SayaTubeUser {
4    constructor(username) {
5      if (typeof username !== 'string' || username.length === 0 || username.length > 100) {
6        throw new Error("Username must be a non-empty string with a maximum length of 100 characters.");
7      }
8      this.username = username;
9      this.uploadedVideos = [];
10   }
11
12   AddVideo(video) {
13     if (!(video instanceof SayaTubeVideo)) {
14       throw new Error("Invalid video object.");
15     }
16     if (video.playCount > Number.MAX_SAFE_INTEGER) {
17       throw new Error("Play count exceeds maximum integer value.");
18     }
19     this.uploadedVideos.push(video);
20   }
21
22   GetTotalVideoPlayCount() {
23     return this.uploadedVideos.reduce((total, video) => total + video.playCount, 0);
24   }
25
26   PrintAllVideoPlaycount() {
27     console.log(`User: ${this.username}`);
28     const maxVideosToPrint = Math.min(8, this.uploadedVideos.length);
29     for (let i = 0; i < maxVideosToPrint; i++) {
30       console.log(`Video ${i + 1} judul: ${this.uploadedVideos[i].title}`);
31     }
32   }
33 }
```

06_DBC > JM > JS SayaTubeVideo.js > SayaTubeVideo

```
1  export default class SayaTubeVideo {
2      constructor(title) {
3          if (typeof title !== 'string' || title.length === 0 || title.length > 200) {
4              throw new Error("Title must be a non-empty string with a maximum length of 200 characters.");
5          }
6          this.id = Math.floor(10000 + Math.random() * 90000);
7          this.title = title;
8          this.playCount = 0;
9      }
10
11     IncreasePlayCount(count) {
12         if (typeof count !== 'number' || count <= 0 || count > 25000000) {
13             throw new Error("Play count increment must be between 1 and 25,000,000.");
14         }
15         try {
16             let newPlayCount = this.playCount + count;
17             if (newPlayCount > Number.MAX_SAFE_INTEGER) {
18                 throw new Error("Play count overflow detected.");
19             }
20             this.playCount = newPlayCount;
21         } catch (error) {
22             console.error("Error:", error.message);
23         }
24     }
25
26     PrintVideoDetails() {
27         console.log(`Video ID: ${this.id}`);
28         console.log(`Title: ${this.title}`);
29         console.log(`Play Count: ${this.playCount}`);
30     }
31 }
```