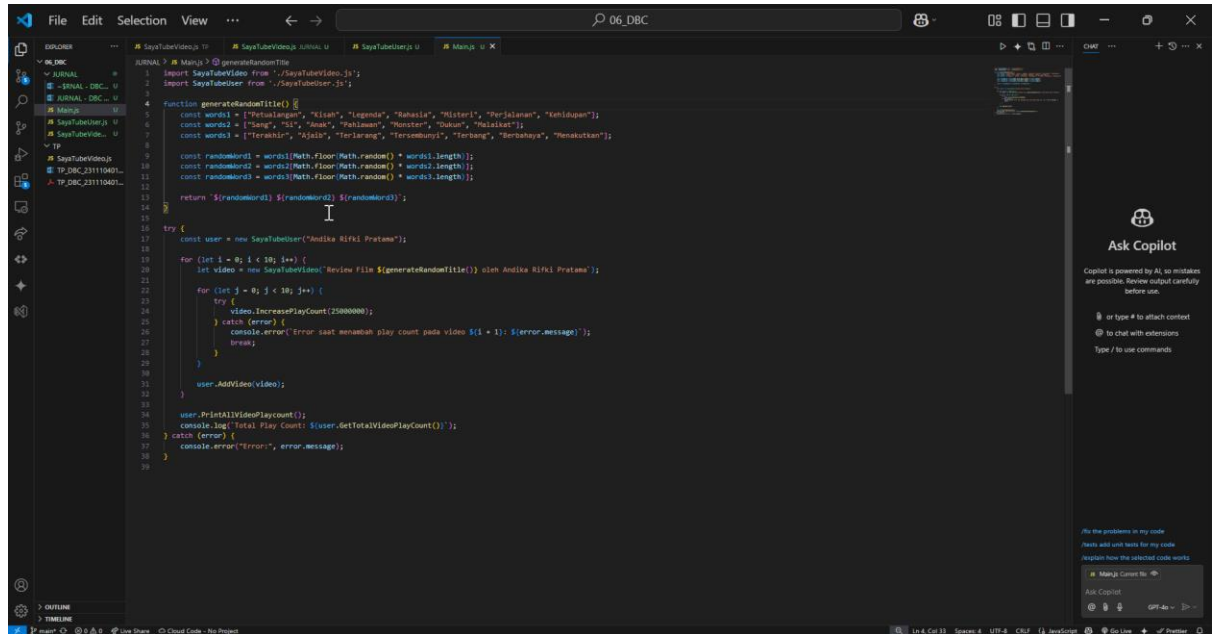


Nama : Andika Rifki Pratama

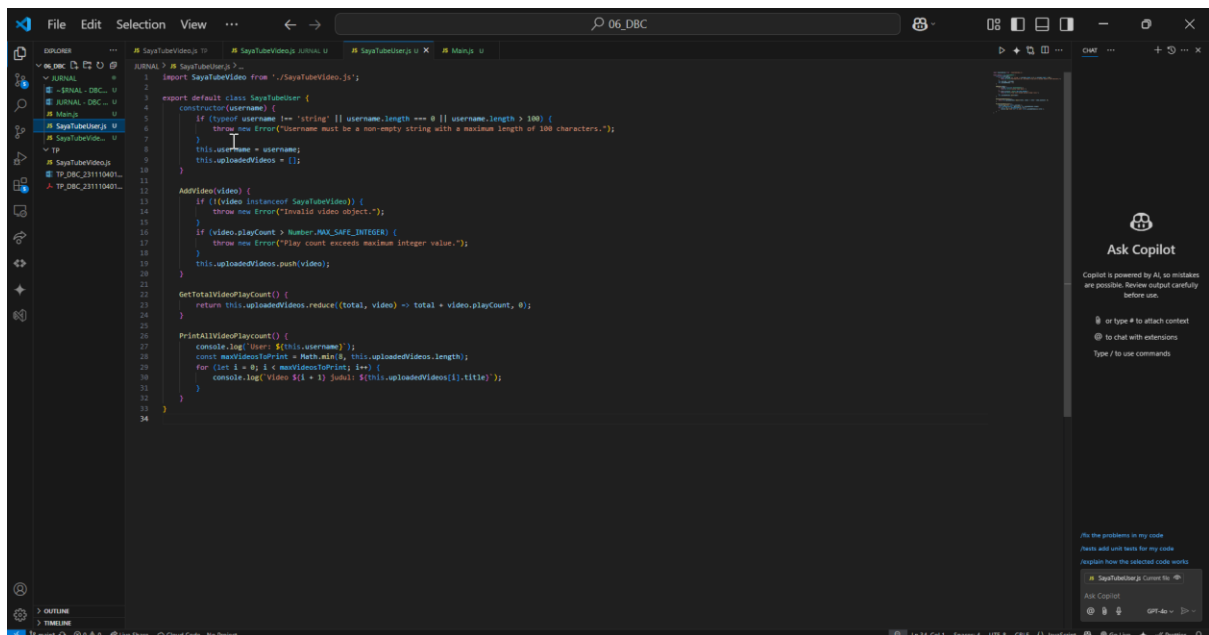
Kelas : SE-07-01

NIM : 2311104011

## 1. Main.js

A screenshot of the Visual Studio Code editor with a dark theme. The Explorer sidebar on the left shows a project structure with folders '06\_DBC' and 'Main.js'. The main editor window displays the code for 'Main.js'. The code imports 'SayaTubeVideo' and 'SayaTubeUser' from local files. It defines a 'generateRandomTitle' function that creates random titles using an array of words and random lengths. The main logic is inside a 'try' block where a 'SayaTubeUser' object is created, a loop generates random videos, and each video is added to the user's collection. Finally, the total video play count is printed to the console. The status bar at the bottom shows 'Ln 4, Col 13', 'Spaces: 4', 'UTF-8', 'CRLF', and 'JavaScript'.

## 2. SayaTubeUser.js

A screenshot of the Visual Studio Code editor with a dark theme. The Explorer sidebar on the left shows the project structure, with 'SayaTubeUser.js' selected. The main editor window displays the code for 'SayaTubeUser.js'. This file defines a 'SayaTubeUser' class with a constructor that takes a 'username' and initializes 'uploadedVideos' as an empty array. It includes methods for adding videos, getting the total video play count, and printing video details to the console. The 'AddVideo' method checks if the video is an instance of 'SayaTubeVideo' and if the play count is within a safe integer range. The 'GetTotalVideoPlayCount' method uses 'reduce' to sum up the play counts of all uploaded videos. The 'PrintAllVideoPlayCount' method logs the user's name and the details of their uploaded videos. The status bar at the bottom shows 'Ln 34, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', and 'JavaScript'.

## 3. SayaTubeVideo.js

```
JS SayaTubeVideos TP JS SayaTubeVideos JURNAL U X JS SayaTubeUserjs U JS Mainjs U
JURNAL > JS SayaTubeVideos > ...
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 }
32
```

Output :

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS POLYGLOT NOTEBOOK COMMENTS
uss\SMT 4\Konstruksi Perangkat Lunak\Praktikum\KPL_Andika Rifki Pratama_231104011_SE0701\06_DBC\JURNAL> node Main.js
User: Andika Rifki Pratama
Video 1 judul: Review Film Kehidupan Pahlawan Terakhir oleh Andika Rifki Pratama
Video 2 judul: Review Film Petualangan Anak Menakutkan oleh Andika Rifki Pratama
Video 3 judul: Review Film Rahasia Anak Tersembunyi oleh Andika Rifki Pratama
Video 4 judul: Review Film Misteri Sang Ajaib oleh Andika Rifki Pratama
Video 5 judul: Review Film Legenda Malaikat Tersembunyi oleh Andika Rifki Pratama
Video 6 judul: Review Film Rahasia Pahlawan Berbahaya oleh Andika Rifki Pratama
Video 7 judul: Review Film Petualangan Pahlawan Menakutkan oleh Andika Rifki Pratama
Video 8 judul: Review Film Perjalanan Pahlawan Menakutkan oleh Andika Rifki Pratama
Total Play Count: 2500000000
PS D:\Campuss\SMT 4\Konstruksi Perangkat Lunak\Praktikum\KPL_Andika Rifki Pratama_231104011_SE0701\06_DBC\JURNAL>
```