

Nama : Aubrey Rayhan Firoz

Kelas : Se06-01

Nim : 2211104010

Identifikasi bad smell



```
1 public void printInfo(int detailLevel) {
2     if (detailLevel == 0) {
3         System.out.println("song title: " + title);
4         System.out.println("release year: " + releaseYear);
5         if (genre > 0) {
6             System.out.println("genre: " + genre);
7         }
8     } else if (detailLevel == 1) {
9         System.out.println("song title: " + title);
10        System.out.println("release year: " + releaseYear);
11        if (genre > 0) {
12            System.out.println("genre: " + genre);
13        }
14        if (!artistName.equals("")) {
15            System.out.println("artist name: " + artistName);
16        }
17        if (!artistAlias.equals("")) {
18            System.out.println("artist also known as: " + artistAlias);
19        }
20    } else if (detailLevel == 2) {
21        System.out.println("song title: " + title);
22        System.out.println("release year: " + releaseYear);
23        if (genre > 0) {
24            System.out.println("genre: " + genre);
25        }
26        if (!albumName.equals("")) {
27            System.out.println("album title: " + albumName);
28        }
29    } else if (detailLevel == 3) {
30        System.out.println("song title: " + title);
31        System.out.println("release year: " + releaseYear);
32        if (genre > 0) {
33            System.out.println("genre: " + genre);
34        }
35        if (!artistName.equals("")) {
36            System.out.println("artist name: " + artistName);
37        }
38        if (!artistAlias.equals("")) {
39            System.out.println("artist also known as: " + artistAlias);
40        }
41        if (!albumName.equals("")) {
42            System.out.println("album title: " + albumName);
43        }
44    }
45 }
```

Pada method printinfo, methodnya terlalu Panjang dan repetitive

```

1 public Song(String id, String title, String releaseYear, String musicFileURL) {
2     this.id = id;
3     this.title = title;
4     this.releaseYear = releaseYear;
5     this.musicFileURL = musicFileURL;
6 }
7
8 public void setAlbum(String albumName, String albumCoverURL) {
9     this.albumName = albumName;
10    this.albumCoverURL = albumCoverURL;
11 }
12
13 public void setArtist(String artistName, String artistAlias, String artistImageURL) {
14     this.artistName = artistName;
15     this.artistAlias = artistAlias;
16     this.artistImageURL = artistImageURL;
17 }
18

```

Attribute Attribute ini bisa di jadikan kelas masing masing kayak misal kelas artist, kelas album.
 Karena attribute ini bakal di pakai terus

```

1 public void printInfo(int detailLevel) {
2     if (detailLevel == 0) {
3         System.out.println("song title: " + title);
4         System.out.println("release year: " + releaseYear);
5         if (genre > 0) {
6             System.out.println("genre: " + genre);
7         }
8     } else if (detailLevel == 1) {
9         System.out.println("song title: " + title);
10        System.out.println("release year: " + releaseYear);
11        if (genre > 0) {
12            System.out.println("genre: " + genre);
13        }
14        if (!artistName.equals("")) {
15            System.out.println("artist name: " + artistName);
16        }
17        if (!artistAlias.equals("")) {
18            System.out.println("artist also known as: " + artistAlias);
19        }
20    } else if (detailLevel == 2) {
21        System.out.println("song title: " + title);
22        System.out.println("release year: " + releaseYear);
23        if (genre > 0) {
24            System.out.println("genre: " + genre);
25        }
26        if (!albumName.equals("")) {
27            System.out.println("album title: " + albumName);
28        }
29    } else if (detailLevel == 3) {
30        System.out.println("song title: " + title);
31        System.out.println("release year: " + releaseYear);
32        if (genre > 0) {
33            System.out.println("genre: " + genre);
34        }
35        if (!artistName.equals("")) {
36            System.out.println("artist name: " + artistName);
37        }
38        if (!artistAlias.equals("")) {
39            System.out.println("artist also known as: " + artistAlias);
40        }
41        if (!albumName.equals("")) {
42            System.out.println("album title: " + albumName);
43        }
44    }
45 }

```

Bisa tambahkan exception in case ada yang null