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Link Gh: https://github.com/Aubrey16/Mkepl_2211104010_Aubrey-Rayhan-Firoz/tree/main/Pertemuan4/Tugas

Identifikasi bad smell

```java
public void printInfo(int detailLevel) {
        if (detailLevel == 0) {
            System.out.println("song title: " + title);
            System.out.println("release year: " + releaseYear);
            if (genre > 0) {
                System.out.println("genre: " + genre);
            }
        }else if(detailLevel == 1) {
            System.out.println("song title: " + title);
            System.out.println("release year: " + releaseYear);
            if (genre > 0) {
                System.out.println("genre: " + genre);
            }
            if (!artistName.equals("")) {
                System.out.println("artist name: " + artistName);
            }
            if (!artistAlias.equals("")) {
                System.out.println("artist also known as: " + artistAlias);
            }
        }else if (detailLevel == 2) {
            System.out.println("song title: " + title);
            System.out.println("release year: " + releaseYear);
            if (genre > 0) {
                System.out.println("genre: " + genre);
            }
            if (!albumName.equals("")) {
                System.out.println("album title: " + albumName);
            }
        }else if (detailLevel == 3) {
            System.out.println("song title: " + title);
            System.out.println("release year: " + releaseYear);
            if (genre > 0) {
                System.out.println("genre: " + genre);
            }
            if (!artistName.equals("")) {
                System.out.println("artist name: " + artistName);
            }
            if (!artistAlias.equals("")) {
                System.out.println("artist also known as: " + artistAlias);
            }
            if (!albumName.equals("")) {
                System.out.println("album title: " + albumName);
            }
        }
    }
```

Pada method printinfo, methodnya terlalu Panjang dan repetitive

```java
public Song(String id, String title, String releaseYear, String musicFileURL) {
    this.id = id;
    this.title = title;
    this.releaseYear = releaseYear;
    this.musicFileURL = musicFileURL;
}

public void setAlbum(String albumName, String albumCoverURL) {
    this.albumName = albumName;
    this.albumCoverURL = albumCoverURL;
}

public void setArtist(String artistName, String artistAlias, String artistImageURL) {
    this.artistName = artistName;
    this.artistAlias = artistAlias;
    this.artistImageURL = artistImageURL;
}
```

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

```java
public void printInfo(int detailLevel) {
    if (detailLevel == 0) {
        System.out.println("song title: " + title);
        System.out.println("release year: " + releaseYear);
        if (genre > 0) {
            System.out.println("genre: " + genre);
        }
    }else if(detailLevel == 1) {
        System.out.println("song title: " + title);
        System.out.println("release year: " + releaseYear);
        if (genre > 0) {
            System.out.println("genre: " + genre);
        }
        if (!artistName.equals("")) {
            System.out.println("artist name: " + artistName);
        }
        if (!artistAlias.equals("")) {
            System.out.println("artist also known as: " + artistAlias);
        }
    }else if (detailLevel == 2) {
        System.out.println("song title: " + title);
        System.out.println("release year: " + releaseYear);
        if (genre > 0) {
            System.out.println("genre: " + genre);
        }
        if (!albumName.equals("")) {
            System.out.println("album title: " + albumName);
        }
    }else if (detailLevel == 3) {
        System.out.println("song title: " + title);
        System.out.println("release year: " + releaseYear);
        if (genre > 0) {
            System.out.println("genre: " + genre);
        }
        if (!artistName.equals("")) {
            System.out.println("artist name: " + artistName);
        }
        if (!artistAlias.equals("")) {
            System.out.println("artist also known as: " + artistAlias);
        }
        if (!albumName.equals("")) {
            System.out.println("album title: " + albumName);
        }
    }
}
```

Bisa tambahkan exception in case ada yang null