

# Ja111 Day18 Assignment

Q1)

1. Create a class Song with the following members:

a. following 2 fields with private visibility:

```
movieName: String
```

```
songName: String
```

b. Override the hashCode and equals method to verify the uniqueness of the Song (If movieName and songName is same for two Song object then they should be treated as duplicate object).

c. public parameterized constructor to initialise the songName and movieName Variables.

d. A non-static method with public visibility:

```
play():void
```

This play method should print:

```
songName+" of "+movieName+" is playing...!"
```

2. Create a class Playlist with the following members:

a. `public List<Song> songs = new ArrayList<>();`

b. `public void addSong(Song song);`

This addSong method will take a Song object and add the Song object to the above List (songs) and print: "Song added to the playlist successfully."

If the user tries to add any duplicate song in this list of songs then it should print:

"Song is already added in the playlist"

3. Create a Main class with the main method and do the following task inside the main method.

a. Create 4 song objects by taking details from the user.

b. Create an object of the Playlist class and add all the 4 Song objects into the list of Playlist object by calling addSong method.

Get all the songs one by one from the list of Playlist object and call the play() method on each Song object

Q2) Write a program to traverse (or iterate) ArrayList? (Using Iterator, for loop and enhanced for loop)

**Note:** Create a ArrayList of String

Q3) What is the difference between List and Set ?