**Linked List Activity in Java**

**Scenario:** You are tasked with creating a program to manage a playlist for a music streaming service. Each song in the playlist is represented by a node in a linked list. The playlist should support operations such as adding a song to the end, removing a song, and displaying the playlist.

**Objective:** Implement a linked list to represent the playlist and create a Java program that allows

1. **Define Node Class: you will need getters, setters, and a toString method**

**public** **class** SongNode {

**private** String title;

**private** String artist;

**private** SongNode next;

**private** SongNode previous;

**public** SongNode(String title, String artist) {

**this**.title = title;

**this**.artist = artist;

**this**.next = **null**;

**this**.previous = **null**;

}

1. **Create Playlist Class**

Create a **PlayList** class that uses a linked list of **SongNode** objects.

**public** **class** PlayList {

**private** SongNode head;

**private** SongNode tail;

// Constructor

**public** PlayList() {

**this**.head = **null**;

**this**.tail = **null**;

}

// Add a song to the end of the playlist

**public** **void** addSong(String title, String artist) {

}

// count the songs in the playlist

**public** **int** count() {

}

// Display the playlist

**public** **void** displayPlayList() {

}

// Remove a song from the playlist with the given title

**public** **void** removeSong(String title) {

}

// Shuffle the order of the playlist

**public** **void** shuffle() {

}

1. **Tester**
   1. Test the methods of your **PlayList** class with some of your favorite songs