**Peers to Peers: Composite Pattern:**

**Submit IComponent.java here:**

public interface IComponent

{

public void play();

public void setPlaybackSpeed(float speed); public String getName();

}

**Submit Playlist.java here :**

public class Playlist implements IComponent {

public String playlistName; public Arraylist<IComponent> playlist:

public Playlist(String playlistName) (

this.playlistName playlistName: this.playlist-new ArrayList<IComponent>

public void play() {

for(IComponent component: playlist) { System.out.println("Now Playing" component.getName();

component.play();

}

}

public void setPlaybackSpeed(float speed) { for(IComponent component: playlist) { component.setPlaybackSpeed(speed);

}

}

public String getName() { return playlistName; }

public void add(IComponent component) { playlist.add(component); }

public void remove(IComponent component) { playlist.remove(component); } }

**Submit Song.java here:**

public class Song implements IComponent {

public String songName;

public float playbackSpeed;

public String artistName;

public Playlist(String songName, String artistName) { this.songName = songName;

this.artistName = artistName;

this.playbackSpeed = 1.0;

}

public void play() {

// play song at playbackSpeed

}

public void setPlaybackSpeed(float speed) { this.playbackSpeed = speed;

}

public String getName() { return songName + " by "+ artistName; }