



```

AudioPlayer.java U X
AudioPlayer.java > AudioPlayer
1 public class AudioPlayer implements MediaPlayer {
2     private MediaAdapter mediaAdapter;
3
4     @Override
5     public void play(String audioType, String fileName) {
6         // inbuilt support to play mp3 music files if
7         // audioType.equalsIgnoreCase("mp3")) {
8         if (audioType.equalsIgnoreCase(anotherString: "mp3")) {
9             System.out.println("Playing mp3 file. Name: " + fileName);
10        }
11        // mediaAdapter is providing support to play other file formats
12        else if (audioType.equalsIgnoreCase(anotherString: "vlc") || audioType.equalsIgnoreCase(anotherString: "mp4")) {
13            mediaAdapter = new MediaAdapter(audioType);
14            mediaAdapter.play(audioType, fileName);
15        } else {
16            System.out.println("Invalid media. " + audioType + " format not supported");
17        }
18    }
19 }
  
```

AdvancedMediaPlayer.java U X

AdvancedMediaPlayer.java > ...

```
1 public interface AdvancedMediaPlayer {
2     ... public void playVlc(String fileName);
3     ... public void playMp4(String fileName);
4 }
5
```

AdapterPatternDemo.java U X

AdapterPatternDemo.java > AdapterPatternDemo > main(String[])

```
1 public class AdapterPatternDemo {
    Run | Debug
2     ... public static void main(String[] args) {
3         ... AudioPlayer audioPlayer = new AudioPlayer();
4         ... audioPlayer.play(audioType: "mp3", fileName: "beyond the horizon.mp3");
5         ... audioPlayer.play(audioType: "mp4", fileName: "alone.mp4");
6         ... audioPlayer.play(audioType: "vlc", fileName: "far far away.vlc");
7         ... audioPlayer.play(audioType: "avi", fileName: "mind me.avi");
8     }
9 }
10
```

MediaAdapter.java U X

MediaAdapter.java > MediaAdapter > MediaAdapter(String)

```
1 public class MediaAdapter implements MediaPlayer {
2     ... AdvancedMediaPlayer advancedMediaPlayer;
3
4     ... public MediaAdapter(String audioType) {
5         ... if (audioType.equalsIgnoreCase("vlc")) {
6             ... advancedMediaPlayer = new VlcPlayer();
7         } else if (audioType.equalsIgnoreCase("mp4")) {
8             ... advancedMediaPlayer = new Mp4Player();
9         }
10    }
11
12    ... @Override
13    ... public void play(String audioType, String fileName) {
14        ... if (audioType.equalsIgnoreCase("vlc")) {
15            ... advancedMediaPlayer.playVlc(fileName);
16        } else if (audioType.equalsIgnoreCase("mp4")) {
17            ... advancedMediaPlayer.playMp4(fileName);
18        }
19    }
20 }
```

MediaPlayer.java U X

MediaPlayer.java > MediaPlayer

```
1 public interface MediaPlayer {
2     ... public void play(String audioType, String fileName);
3 }
```

☞ Mp4Player.java U X

☞ Mp4Player.java > ☞ Mp4Player > ☞ playMp4(String)

```
1 public class Mp4Player implements AdvancedMediaPlayer {
2     ... @Override
3     ... public void playVlc(String fileName) {
4         ... //do nothing
5     ... }
6     ... @Override
7     ... public void playMp4(String fileName) {
8         ... System.out.println("Playing mp4 file. Name: " + fileName);
9     ... }
10 }
```

☞ VlcPlayer.java U X

☞ VlcPlayer.java > ☞ VlcPlayer

```
1 public class VlcPlayer implements AdvancedMediaPlayer {
2     ... @Override
3     ... public void playVlc(String fileName) {
4         ... System.out.println("Playing vlc file. Name: " + fileName);
5     ... }
6
7     ... @Override
8     ... public void playMp4(String fileName) {
9         ... //do nothing
10    ... }
11 }
```

```
Playing mp3 file. Name: beyond the horizon.mp3
Playing mp4 file. Name: alone.mp4
Playing vlc file. Name: far far away.vlc
Invalid media. avi format not supported
```