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MediaPlayer.java

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

AdvancedMediaPlayer.java

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

VlcPlayer.java

```
1 public class VlcPlayer implements AdvancedMediaPlayer {  
2     @Override  
3     public void playVlc(String fileName)  
4     {  
5         System.out.println("playing Vlc file. Name : " + fileName);  
6     }  
7  
8     @Override  
9     public void playMp4(String fileName)  
10    {}  
11 }
```

Mp4Player.java

```
1 public class Mp4Player implements AdvancedMediaPlayer {  
2     @Override  
3     public void playVlc(String fileName)  
4     {}  
5  
6     @Override  
7     public void playMp4(String fileName)  
8     {  
9         System.out.println("playing Mp4 file. Name : " + fileName);  
10    }  
11 }
```

```

MediaAdapter.java
1 public class MediaAdapter implements MediaPlayer{
2     AdvancedMediaPlayer advancedMusicPlayer;
3     public MediaAdapter(String audioType)
4     {
5         if(audioType.equalsIgnoreCase("vlc"))
6         {
7             advancedMusicPlayer = new VlcPlayer();
8         }
9         else if(audioType.equalsIgnoreCase("mp4"))
10        {
11            advancedMusicPlayer = new Mp4Player();
12        }
13    }
14
15    @Override
16    public void play(String audioType, String fileName)
17    {
18        if(audioType.equalsIgnoreCase("vlc"))
19        {
20            advancedMusicPlayer.playVlc(fileName);
21        }
22        else if(audioType.equalsIgnoreCase("mp4"))
23        {
24            advancedMusicPlayer.playMp4(fileName);
25        }
26    }
27 }

```

```

AudioPlayer.java
1 public class AudioPlayer implements MediaPlayer{
2     MediaAdapter mediaAdapter;
3     @Override
4     public void play(String audioType, String fileName)
5     {
6         if(audioType.equalsIgnoreCase("mp3"))
7         {
8             System.out.println("Playing mp3 file. Name : " + fileName);
9         }
10        else if(audioType.equalsIgnoreCase("vlc") || audioType.equalsIgnoreCase("mp4"))
11        {
12            mediaAdapter = new MediaAdapter(audioType);
13            mediaAdapter.play(audioType, fileName);
14        }
15        else
16        {
17            System.out.println("Invalid media. " + audioType + " format not supported");
18        }
19    }
20
21 }

```

```

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

```

## UML

