**public** **interface** MediaPlayer {

**public** **void** play(String audioType, String fileName);

}

**public** **interface** AdvancedMediaPlayer {

**public** **void** playVlc(String fileName);

**public** **void** playMp4(String fileName);

}

**public** **class** VlcPlayer **implements** AdvancedMediaPlayer{

@Override

**public** **void** playVlc(String fileName) {

// **TODO** Auto-generated method stub

System.***out***.println("Playing vlc file. Name: "+ fileName);

}

@Override

**public** **void** playMp4(String fileName) {

// **TODO** Auto-generated method stub

}

}

**public** **class** Mp4Player **implements** AdvancedMediaPlayer{

@Override

**public** **void** playVlc(String fileName) {

// **TODO** Auto-generated method stub

}

@Override

**public** **void** playMp4(String fileName) {

// **TODO** Auto-generated method stub

System.***out***.println("Playing mp4 file. Name: "+ fileName);

}

}

**public** **class** MediaAdapter **implements** MediaPlayer {

AdvancedMediaPlayer advancedMusicPlayer;

**public** MediaAdapter(String audioType){

**if**(audioType.equalsIgnoreCase("vlc") ){

advancedMusicPlayer = **new** VlcPlayer();

}**else** **if** (audioType.equalsIgnoreCase("mp4")){

advancedMusicPlayer = **new** Mp4Player();

}

}

@Override

**public** **void** play(String audioType, String fileName) {

// **TODO** Auto-generated method stub

**if**(audioType.equalsIgnoreCase("vlc")){

advancedMusicPlayer.playVlc(fileName);

}

**else** **if**(audioType.equalsIgnoreCase("mp4")){

advancedMusicPlayer.playMp4(fileName);

}

}

}

**public** **class** AudioPlayer **implements** MediaPlayer {

MediaAdapter mediaAdapter;

@Override

**public** **void** play(String audioType, String fileName) {

// **TODO** Auto-generated method stub

// inbuilt support to play mp3 music files

**if** (audioType.equalsIgnoreCase("mp3")) {

System.***out***.println("Playing mp3 file. Name: " + fileName);

}

// mediaAdapter is providing support to play other file formats

**else** **if** (audioType.equalsIgnoreCase("vlc") ||

audioType.equalsIgnoreCase("mp4")) {

mediaAdapter = **new** MediaAdapter(audioType);

mediaAdapter.play(audioType, fileName);

}

**else** {

System.***out***.println("Invalid media. " + audioType + " format not supported");

}

}

}

**public** **class** main {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

AudioPlayer audioPlayer = **new** AudioPlayer();

audioPlayer.play("mp3", "beyond the horizon.mp3");

audioPlayer.play("mp4", "alone.mp4");

audioPlayer.play("vlc", "far far away.vlc");

audioPlayer.play("avi", "mind me.avi");

}

}

Result: -----------------------------------------------------------------------------------------

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