Resolution File for the Adapter Pattern Exercise

Exercise

Use the already existing program and add the following things:

Implement an even more advanced media player which can play mp5 and vlx format files. For that you had to create a new Adapter called **AdvancedMediaAdapter**. The already existing audio player has to play mp5 and vlx files.

Solution

New Code

```
namespace AdapterPattern_Audio
  interface IEvenMoreAdvancedMediaPlayer
    {
            void PlayVlx(string fileName);
            void PlayMp5(string fileName);
    }
public class VlxPlayer : IEvenMoreAdvancedMediaPlayer
        public void PlayVlx(string fileName)
            Console.WriteLine("Playing vlx file. Name: " + fileName);
        public void PlayMp5(string fileName)
            //do nothing
    public class Mp5Player : IEvenMoreAdvancedMediaPlayer
        public void PlayVlx(string fileName)
            //do nothing
        public void PlayMp5(string fileName)
            Console.WriteLine("Playing mp5 file. Name: " + fileName);
    }
class AdvancedMediaAdapter:IMediaPlayer
            IEvenMoreAdvancedMediaPlayer evenMoreAdvancedMusicPlayer;
            public AdvancedMediaAdapter(string audioType)
```

```
if (audioType == "vlx")
                    evenMoreAdvancedMusicPlayer = new VlxPlayer();
                }
                else if (audioType == "mp5")
                {
                    evenMoreAdvancedMusicPlayer = new Mp5Player();
                }
            }
            public void Play(string audioType, string fileName)
                if (audioType == "vlx")
                {
                    evenMoreAdvancedMusicPlayer.PlayVlx(fileName);
                }
                else if (audioType == "mp5")
                    evenMoreAdvancedMusicPlayer.PlayMp5(fileName);
                }
            }
        }
public class AudioPlayer : IMediaPlayer
    {
        MediaAdapter mediaAdapter;
        AdvancedMediaAdapter advancedMediaAdapter;
   public void Play(string audioType, string fileName)
        //inbuilt support to play mp3 music files
        if (audioType=="mp3")
            Console.WriteLine("Playing mp3 file. Name: " + fileName);
        }
        //mediaAdapter is providing support to play other file formats
        else if (audioType=="vlc" || audioType=="mp4")
            mediaAdapter = new MediaAdapter(audioType);
            mediaAdapter.Play(audioType, fileName);
        else if (audioType=="vlx" || audioType=="mp5")
            advancedMediaAdapter = new AdvancedMediaAdapter(audioType);
            advancedMediaAdapter.Play(audioType, fileName);
        }
        else
        {
                Console.WriteLine("Invalid media. " + audioType + " format not
supported");
       }
     }
     }
Testing
static void Main(string[] args)
            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");
audioPlayer.Play("vlx", "thunderstruck.vlx");
audioPlayer.Play("mp5", "the end.mp5");
}

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
Playing vlx file. Name: thunderstruck.vlx
Playing mp5 file. Name: the end.mp5
```