Abstraction(Polymophism+Interface)

```
public abstract class MediaPlayer {
    // Abstract method to play media, the specifics will vary for different media types
    public abstract void playMedia();

    // Abstract method to stop media playback
    public abstract void stopMedia();

    // A concrete method that can be used by all subclasses
    public void displayMediaInfo(String media) {
        System.out.println("Playing: " + media);
    }
}

public class AudioPlayer extends MediaPlayer {
    private String audioFile;

    public AudioPlayer(String audioFile) {
        this.audioFile = audioFile;
    }

    @Override
    public void playMedia() {
        super.displayMediaInfo(audioFile);
        System.out.println("Audio playback starts.");
    }

    @Override
```

```
    public void stopMedia() {
        System.out.println("Audio playback stops.");
    }
}

public class VideoPlayer extends MediaPlayer {
    private String videoFile;

    public VideoPlayer(String videoFile) {
        this.videoFile = videoFile;
    }

    @Override
    public void playMedia() {
        super.displayMediaInfo(videoFile);
        System.out.println("Video playback starts.");
    }

    @Override
    public void stopMedia() {
        System.out.println("Video playback stops.");
    }
}

public class Main {
    public static void main(String[] args) {
        MediaPlayer myAudioPlayer = new AudioPlayer("song.mp3");
        MediaPlayer myVideoPlayer = new VideoPlayer("movie.mp4");
```

```
        myAudioPlayer.playMedia();  // Audio specific playback
        myAudioPlayer.stopMedia();

        myVideoPlayer.playMedia();  // Video specific playback
        myVideoPlayer.stopMedia();
    }
}
```

OUTPUT

```
Playing: song.mp3
Audio playback starts.
Audio playback stops.
Playing: movie.mp4
Video playback starts.
Video playback stops.
```