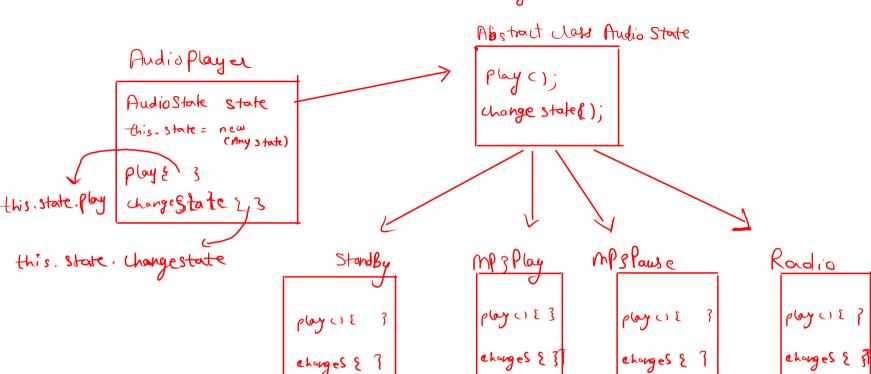
State: - Behavioural Design Pattern.



```
oublic class AudioPlayer {
  class Test {
       public static void main(String[] args) {
                                                                                            AudioPlayer() {
                                                                                                this.state = new MP3StandByState();
            AudioPlayer player = new AudioPlayer():
            player.pressPlay();
                                                                                            public void pressPlay() {
            player.pressChangeSource();
                                                                                                this.state.pressPlay(this); //calling AudioPlayer's object's AudioPlayerState object reference's
            player.pressPlay();
            player.pressChangeSource();
            player.pressPlay();
                                                                                            public void pressChangeSource() {
            player.pressPlay();
                                                                                                this.state.pressChangeSource(this);
public abstract class AudioPlayerState {-
                                                                                                                             Single Responsibility Masses of States.
extends Inheritance
     public abstract void pressPlay(AudioPlayer p);
    public abstract void pressChangeSource(AudioPlayer p);
                                                                                                              public class RadioState extends AudioPlayerState {
                                                                                                                                                                    public class MP3StandByState extends AudioPlayerState
public class MP3PlayingState extends AudioPlayerState {
                                                        public class MP3PausedState extends AudioPlayerState {
                                                                                                                 @Override
                                                                                                                 public void pressPlay(AudioPlayer p) {
                                                          public void pressPlay(AudioPlayer p) {
                                                                                                                                                                      public void pressPlay(AudioPlayer p) {
  public void pressPlay(AudioPlayer p) {
                                                                                                                     System.out.println(x: "Changing the Station");
                                                             System.out.println(x: "Playing Mp3");
      System.out.println(x: "Paused Mp3");
                                                                                                                                                                          System.out.println(x: "Invalid Operation");
                                                             p.state = new MP3PlayingState();
      p.state = new MP3PausedState();
                                                                                                                 @Override
                                                                                                                 public void pressChangeSource(AudioPlayer p) {
  @Override
                                                                                                                                                                      public void pressChangeSource(AudioPlayer p) {
                                                                                                                     System.out.println(x: "Going to MP3");
                                                          public void pressChangeSource(AudioPlayer p) {
  public void pressChangeSource(AudioPlayer p) {
                                                                                                                                                                          System.out.println(x: "Setting Sorce to Radio");
     System.out.println(x: "Setting source to radio");
                                                              System.out.println(x: "Setting Source to Radio");
                                                                                                                     p.state = new MP3PausedState();
                                                                                                                                                                          p.state = new RadioState();
                                                             p.state = new RadioState();
```