

Develop an android application that runs audio file.

Layout.java

```
1. package com.example.mediaplayeapp;
2.
3. import androidx.appcompat.app.AppCompatActivity;
4.
5. import android.media.MediaPlayer;
6. import android.os.Bundle;
7. import android.view.View;
8. import android.widget.Toast;
9.
10.
11. public class MainActivity extends AppCompatActivity {
12.
13.     MediaPlayer player;
14.
15.     @Override
16.     protected void onCreate(Bundle savedInstanceState) {
17.         super.onCreate(savedInstanceState);
18.         setContentView(R.layout.activity_main);
19.     }
20.
21.     public void play(View v){
22.         if(player == null) {
23.             player = MediaPlayer.create(MainActivity.this, R.raw.cyanide);
24.             player.setOnCompletionListener(new MediaPlayer.OnCompletionListener() {
25.                 @Override
26.                 public void onCompletion(MediaPlayer mediaPlayer) {
27.                     stopPlayer();
28.                 }
29.             });
30.         }
31.         player.start();
32.     }
33.     public void pause(View v){
34.         if(player != null){
35.             player.pause();
36.         }
37.     }
38.     public void stop(View v){
39.         stopPlayer();
40.     }
41.
42.     public void stopPlayer(){
43.         if(player != null){
44.             player.stop();
45.             player.release();
46.             player = null;
47.             Toast.makeText(getApplicationContext(),"Player Stopped!",Toast.LENGTH_LONG)
48.                 .show();
49.         }
50.
51.         //as soon as we leave the app, the media player will release all the resources
52.         @Override
53.         protected void onStop() {
54.             super.onStop();
```

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```
55.         stopPlayer();
56.     }
57. }
```

Layout.xml

```
1.  <?xml version="1.0" encoding="utf-8"?>
2.  <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3.      xmlns:app="http://schemas.android.com/apk/res-auto"
4.      xmlns:tools="http://schemas.android.com/tools"
5.      android:layout_width="match_parent"
6.      android:layout_height="match_parent"
7.      android:background="#000000"
8.      tools:context=".MainActivity">
9.
10.     <TextView
11.         android:id="@+id/tv_songName"
12.         android:layout_width="wrap_content"
13.         android:layout_height="wrap_content"
14.         android:layout_marginTop="32dp"
15.         android:fontFamily="@font/secular_one"
16.         android:text="@string/songName_txt"
17.         android:textColor="#DCE1FF"
18.         android:textSize="24sp"
19.         app:layout_constraintEnd_toEndOf="parent"
20.         app:layout_constraintHorizontal_bias="0.498"
21.         app:layout_constraintStart_toStartOf="parent"
22.         app:layout_constraintTop_toBottomOf="@+id/imageView2" />
23.
24.     <LinearLayout
25.         android:layout_width="0dp"
26.         android:layout_height="wrap_content"
27.         android:gravity="center"
28.         android:orientation="horizontal"
29.         app:layout_constraintBottom_toBottomOf="parent"
30.         app:layout_constraintEnd_toEndOf="parent"
31.         app:layout_constraintHorizontal_bias="1.0"
32.         app:layout_constraintStart_toStartOf="parent"
33.         app:layout_constraintTop_toBottomOf="@+id/tv_songName"
34.         app:layout_constraintVertical_bias="0.217">
35.
36.
37.         <ImageButton
38.             android:id="@+id/btn_pause"
39.             android:layout_width="wrap_content"
40.             android:layout_height="wrap_content"
41.             android:layout_margin="15dp"
42.             android:background="#000000"
43.             android:onClick="pause"
44.             app:srcCompat="@drawable/ic_pause" />
45.
46.         <ImageButton
47.             android:id="@+id/btn_play"
48.             android:layout_width="wrap_content"
49.             android:layout_height="wrap_content"
50.             android:layout_marginStart="15dp"
51.             android:layout_marginEnd="15dp"
52.             android:background="#000000"
```

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```
53.         android:onClick="play"
54.         app:srcCompat="@drawable/ic_play" />
55.
56.         <ImageButton
57.             android:id="@+id/btn_stop"
58.             android:layout_width="wrap_content"
59.             android:layout_height="wrap_content"
60.             android:layout_margin="15dp"
61.             android:background="#000000"
62.             android:onClick="stop"
63.             app:srcCompat="@drawable/ic_stop" />
64.
65.     </LinearLayout>
66.
67.     <ImageView
68.         android:id="@+id/imageView2"
69.         android:layout_width="wrap_content"
70.         android:layout_height="wrap_content"
71.         app:layout_constraintBottom_toBottomOf="parent"
72.         app:layout_constraintEnd_toEndOf="parent"
73.         app:layout_constraintHorizontal_bias="0.495"
74.         app:layout_constraintStart_toStartOf="parent"
75.         app:layout_constraintTop_toTopOf="parent"
76.         app:layout_constraintVertical_bias="0.178"
77.         app:srcCompat="@drawable/cyanide" />
78.
79. </androidx.constraintlayout.widget.ConstraintLayout>
```

Snapshot:

