



MUMBAI EDUCATIONAL TRUST

MET INSTITUTE OF COMPUTER SCIENCE



Program Number	24
Roll Number	1545
Title of program	Create an application to play audio and video files.
Objective	Create an application to play audio and video files.

VideoView is a UI widget that is used to display video content to the users within android applications. We can add video in this video view from different resources such as a video stored on the user device, or a video from a server. In this article, we will take a look at How to use Video View in the android application.

Media Controller:

In Android Studio, a MediaController (specifically from the Jetpack Media3 library or the legacy android.widget.MediaController) is used to interact with and control media playback. It acts as a bridge between a user interface (UI) and the underlying media player and its associated MediaSession.

Source Code:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp">

    <Button
        android:id="@+id/playAudioButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Play / Pause Audio"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="20dp"/>

    <VideoView
        android:id="@+id/videoView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@id/playAudioButton"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"/>

</RelativeLayout>
```

MainActivity.java

```

package com.example.videoaudio;

import androidx.appcompat.app.AppCompatActivity;
import android.media.MediaPlayer;
import android.net.Uri;
import android.os.Bundle;
import android.widget.Button;
import android.widget.MediaController;
import android.widget.VideoView;

public class MainActivity extends AppCompatActivity {

    private MediaPlayer mediaPlayer;
    private VideoView videoView;
    private Button playAudioButton;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Audio Playback
        playAudioButton = findViewById(R.id.playAudioButton);
        playAudioButton.setOnClickListener(v -> {
            if (mediaPlayer == null) {
                mediaPlayer = MediaPlayer.create(this, R.raw.sampleaudio);
            }
            if (!mediaPlayer.isPlaying()) {
                mediaPlayer.start();
            } else {
                mediaPlayer.pause();
            }
        });

        // Video Playback
        videoView = findViewById(R.id.videoView);
        String videoPath = "android.resource://" + getPackageName() + "/" +
R.raw.samplevideo;
        Uri uri = Uri.parse(videoPath);
        videoView.setVideoURI(uri);

        MediaController mediaController = new MediaController(this);
        videoView.setMediaController(mediaController);
        mediaController.setAnchorView(videoView);

        videoView.start();
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        if (mediaPlayer != null) {
            mediaPlayer.release();
            mediaPlayer = null;
        }
    }
}

```


Output:

