**Practical No. 9**

**Title: Android program to work with images and videos**

**Aim: Create an application to demonstrate images and videos components**

# Exercise - Create android application to demonstrate images and videos components

**Implementation: Program:**

# MainActivity.java

package com.example.maxpromediaplayer;

import androidx.appcompat.app.AppCompatActivity;

import android.media.MediaPlayer; import android.os.Bundle; import android.view.View; import android.widget.Button; import android.widget.SeekBar;

import java.io.IOException;

public class MainActivity extends AppCompatActivity {

private Button play; private Button pause; private SeekBar sb1; private MediaPlayer mp1;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

play=findViewById(R.id.button); pause=findViewById(R.id.button2); sb1=findViewById(R.id.seekBar);

//mp1=MediaPlayer.create(this,R.raw.inspiring);

//mp1.start(); mp1=new MediaPlayer(); try { mp1.setDataSource("https://www.soundhelix.com/examples/mp3/SoundHelix-

Song-1.mp3");

} catch (IOException e) {

e.printStackTrace();

}

play.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { mp1.start();

}

});

pause.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) { mp1.pause();

}

});

mp1.setOnPreparedListener(new MediaPlayer.OnPreparedListener() {

@Override

public void onPrepared(MediaPlayer mediaPlayer) { mediaPlayer.start(); sb1.setMax(mp1.getDuration()); sb1.setOnSeekBarChangeListener(new

SeekBar.OnSeekBarChangeListener() { @Override

public void onProgressChanged(SeekBar seekBar, int i, boolean b) { if(b) {

mp1.seekTo(i);

}

}

@Override

public void onStartTrackingTouch(SeekBar seekBar) {

}

@Override

public void onStopTrackingTouch(SeekBar seekBar) {

}

});

}

});

mp1.prepareAsync();

}

}

# activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity">

<TextView

android:id="@+id/textView" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginTop="156dp" android:shadowColor="#CD291D" android:text="MaxProMediaPlayer" android:textColor="#F42121" android:textSize="34sp"

app:layout\_constraintBottom\_toTopOf="@+id/imageView" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.0" />

<Button

android:id="@+id/button" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginBottom="160dp" android:text="Play"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.318" app:layout\_constraintStart\_toStartOf="parent" />

<SeekBar

android:id="@+id/seekBar" android:layout\_width="250dp" android:layout\_height="22dp" android:layout\_marginBottom="80dp" app:layout\_constraintBottom\_toTopOf="@+id/button" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.496" app:layout\_constraintStart\_toStartOf="parent" />

<ImageView

android:id="@+id/imageView" android:layout\_width="148dp" android:layout\_height="129dp" android:layout\_marginBottom="60dp"

app:layout\_constraintBottom\_toTopOf="@+id/seekBar" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.498" app:layout\_constraintStart\_toStartOf="parent" app:srcCompat="@drawable/ad" tools:srcCompat="@drawable/ad" />

<Button

android:id="@+id/button2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Pause"

app:layout\_constraintBaseline\_toBaselineOf="@+id/button" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.709" app:layout\_constraintStart\_toStartOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Output:**

