strings.xml

<resources>

<string name="app\_name">AnimationApp</string>

<string name="blink">BLINK</string>

<string name="rotate">ROTATE</string>

<string name="fade">FADE</string>

<string name="move">MOVE</string>

<string name="slide">SLIDE</string>

<string name="zoom">ZOOM</string>

<string name="stop\_animation">STOP ANIMATION</string>

</resources>

activity\_main.xml

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:padding="16dp"

tools:context=".MainActivity">

<ImageView

android:id="@+id/imageView"

android:layout\_width="200dp"

android:layout\_height="200dp"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="20dp"

android:src="@drawable/my\_image" /> <!-- Make sure this matches your image name! -->

<LinearLayout

android:id="@+id/linear1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/imageView"

android:layout\_marginTop="30dp"

android:orientation="horizontal">

<Button

android:id="@+id/btnBlink"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:layout\_marginEnd="8dp"

android:text="@string/blink" />

<Button

android:id="@+id/btnRotate"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:layout\_marginEnd="8dp"

android:text="@string/rotate" />

<Button

android:id="@+id/btnFade"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="@string/fade" />

</LinearLayout>

<LinearLayout

android:id="@+id/linear2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_below="@id/linear1"

android:layout\_marginTop="16dp"

android:orientation="horizontal">

<Button

android:id="@+id/btnMove"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:layout\_marginEnd="8dp"

android:text="@string/move" />

<Button

android:id="@+id/btnSlide"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:layout\_marginEnd="8dp"

android:text="@string/slide" />

<Button

android:id="@+id/btnZoom"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_weight="1"

android:text="@string/zoom" />

</LinearLayout>

<Button

android:id="@+id/btnStop"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/linear2"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="30dp"

android:text="@string/stop\_animation" />

</RelativeLayout>

blink.xml

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

<set xmlns:android="http://schemas.android.com/apk/res/android">

<alpha

android:fromAlpha="0.0"

android:toAlpha="1.0"

android:duration="600"

android:repeatMode="reverse"

android:repeatCount="infinite"/>

</set>

fade.xml

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

<set xmlns:android="http://schemas.android.com/apk/res/android">

<alpha

android:duration="2000"

android:fromAlpha="1.0"

android:toAlpha="0.0" />

</set>

move.xml

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

<set xmlns:android="http://schemas.android.com/apk/res/android"

android:fillAfter="true">

<translate

android:fromXDelta="0%p"

android:toXDelta="75%p"

android:duration="800" />

</set>

rotate.xml

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

<set xmlns:android="http://schemas.android.com/apk/res/android">

<rotate

android:fromDegrees="0"

android:toDegrees="360"

android:pivotX="50%"

android:pivotY="50%"

android:duration="1000"

android:repeatCount="infinite" />

</set>

slide.xml

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

<set xmlns:android="http://schemas.android.com/apk/res/android"

android:fillAfter="true">

<translate

android:fromYDelta="0%p"

android:toYDelta="100%p"

android:duration="800" />

</set>

zoom.xml

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

<set xmlns:android="http://schemas.android.com/apk/res/android"

android:fillAfter="true">

<scale

android:fromXScale="1.0"

android:fromYScale="1.0"

android:toXScale="2.0"

android:toYScale="2.0"

android:pivotX="50%"

android:pivotY="50%"

android:duration="1000"

android:repeatMode="reverse"

android:repeatCount="1" />

</set>

MainActivity.java

package com.example.animationapp; // Make sure your package name matches

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.view.animation.Animation;

import android.view.animation.AnimationUtils;

import android.widget.Button;

import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

ImageView imageView;

Button btnBlink, btnRotate, btnFade, btnMove, btnSlide, btnZoom, btnStop;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// Find all the views by their ID

imageView = findViewById(R.id.imageView);

btnBlink = findViewById(R.id.btnBlink);

btnRotate = findViewById(R.id.btnRotate);

btnFade = findViewById(R.id.btnFade);

btnMove = findViewById(R.id.btnMove);

btnSlide = findViewById(R.id.btnSlide);

btnZoom = findViewById(R.id.btnZoom);

btnStop = findViewById(R.id.btnStop);

// Set OnClickListener for the Blink button

btnBlink.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.blink);

imageView.startAnimation(animation);

}

});

// Set OnClickListener for the Rotate button

btnRotate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.rotate);

imageView.startAnimation(animation);

}

});

// Set OnClickListener for the Fade button

btnFade.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.fade);

imageView.startAnimation(animation);

}

});

// Set OnClickListener for the Move button

btnMove.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.move);

imageView.startAnimation(animation);

}

});

// Set OnClickListener for the Slide button

btnSlide.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.slide);

imageView.startAnimation(animation);

}

});

// Set OnClickListener for the Zoom button

btnZoom.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Animation animation = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.zoom);

imageView.startAnimation(animation);

}

});

// Set OnClickListener for the Stop button

btnStop.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// This will stop any animation that is currently running on the ImageView

imageView.clearAnimation();

}

});

}

}



