**Car animations**

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"  
 tools:context=".MainActivity">  
  
 <ImageView  
 android:id="@+id/imageview"  
 android:layout\_width="200dp"  
 android:layout\_height="200dp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="40dp"  
 android:contentDescription="@string/lab6"  
 android:src="@drawable/car" />  
  
 <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"  
 android:weightSum="3">  
  
 <Button  
 android:id="@+id/BTNblink"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:layout\_margin="10dp"  
 android:text="@string/blink" />  
  
 <Button  
 android:id="@+id/BTNrotate"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:layout\_margin="10dp"  
 android:text="@string/clockwise" />  
  
 <Button  
 android:id="@+id/BTNfade"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:layout\_margin="10dp"  
 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="30dp"  
 android:orientation="horizontal"  
 android:weightSum="3">  
  
 <Button  
 android:id="@+id/BTNmove"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:layout\_margin="10dp"  
 android:text="@string/move" />  
  
 <Button  
 android:id="@+id/BTNslide"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:layout\_margin="10dp"  
 android:text="@string/slide" />  
  
 <Button  
 android:id="@+id/BTNzoom"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:layout\_margin="10dp"  
 android:text="@string/zoom" />  
 </LinearLayout>  
  
 <Button  
 android:id="@+id/BTNstop"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/linear2"  
 android:layout\_marginTop="30dp"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginRight="30dp"  
 android:text="@string/stop\_animation" />  
</RelativeLayout>

Res/values/Strings.xml

<resources>  
 <string name="lab6">YourAppName</string>  
 <string name="blink">Blink</string>  
 <string name="clockwise">Clockwise</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>

Manifests/andriodmanifest.xml

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/lab6"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.Lab6"  
 tools:targetApi="31">  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
  
</manifest>

Res/anim/Fadeanimations.xml

<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android">  
 <alpha  
 android:duration="1000"  
 android:fromAlpha="0"  
 android:toAlpha="1" />  
 <alpha  
 android:duration="1000"  
 android:startOffset="2000"  
 android:fromAlpha="1"  
 android:toAlpha="0" />  
</set>

Mainactivity.java

package com.example.lab6;  
  
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 blinkBTN, rotateBTN, fadeBTN, moveBTN, slideBTN, zoomBTN, stopBTN;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 imageView = findViewById(R.id.*imageview*);  
 blinkBTN = findViewById(R.id.*BTNblink*);  
 rotateBTN = findViewById(R.id.*BTNrotate*);  
 fadeBTN = findViewById(R.id.*BTNfade*);  
 moveBTN = findViewById(R.id.*BTNmove*);  
 slideBTN = findViewById(R.id.*BTNslide*);  
 zoomBTN = findViewById(R.id.*BTNzoom*);  
 stopBTN = findViewById(R.id.*BTNstop*);  
  
 blinkBTN.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Animation animation = AnimationUtils.*loadAnimation*(getApplicationContext(), R.anim.*blinkanimation*);  
 imageView.startAnimation(animation);  
 }  
 });  
  
 rotateBTN.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Animation animation = AnimationUtils.*loadAnimation*(getApplicationContext(), R.anim.*rotateanimation*);  
 imageView.startAnimation(animation);  
 }  
 });  
  
 fadeBTN.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Animation animation = AnimationUtils.*loadAnimation*(getApplicationContext(), R.anim.*fadeanimation*);  
 imageView.startAnimation(animation);  
 }  
 });  
  
 moveBTN.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Animation animation = AnimationUtils.*loadAnimation*(getApplicationContext(), R.anim.*moveanimation*);  
 imageView.startAnimation(animation);  
 }  
 });  
  
 slideBTN.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Animation animation = AnimationUtils.*loadAnimation*(getApplicationContext(), R.anim.*slideanimation*);  
 imageView.startAnimation(animation);  
 }  
 });  
  
 zoomBTN.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Animation animation = AnimationUtils.*loadAnimation*(getApplicationContext(), R.anim.*zoomanimation*);  
 imageView.startAnimation(animation);  
 }  
 });  
  
 stopBTN.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 imageView.clearAnimation();  
 }  
 });  
 }  
}

res/anim/zoomanimation.xml

<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android">  
 <scale  
 android:duration="6000"  
 android:fromXScale="0.0"  
 android:fromYScale="0.0"  
 android:toXScale="1.0"  
 android:toYScale="1.0"  
 android:pivotX="50%"  
 android:pivotY="50%" />  
</set>

Slideanimation.xml

<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android">  
 <scale  
 android:duration="500"  
 android:fromXScale="1.0"  
 android:fromYScale="1.0"  
 android:toXScale="1.0"  
 android:toYScale="0.0" />  
</set>

Rotateanim.xml

<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android">  
 <rotate  
 android:duration="6000"  
 android:fromDegrees="0"  
 android:toDegrees="360"  
 android:pivotX="50%"  
 android:pivotY="50%" />  
</set>

Blinkanimations.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:interpolator="@android:anim/accelerate\_interpolator"  
 android:duration="500"  
 android:repeatMode="reverse"  
 android:repeatCount="infinite" />  
</set>