

activity_main.xml

```
<RelativeLayout
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">

    <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="match_parent">

        <TextView
android:id="@+id/textView2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="72dp"
android:layout_marginTop="16dp"
android:layout_marginEnd="72dp"
android:text="ANIMATION"
android:textColor="#ff3eff0f"
android:textSize="35dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

        <ImageView
```

```
android:id="@+id/imageView"
android:layout_width="217dp"
android:layout_height="197dp"
android:layout_marginStart="58dp"
android:layout_marginTop="68dp"
android:layout_marginEnd="58dp"
android:layout_marginBottom="99dp"
android:src="@drawable/dnyan"
app:layout_constraintBottom_toTopOf="@+id/button6"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="1.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView2" />

    <androidx.appcompat.widget.AppCompatButton
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:layout_marginBottom="48dp"
android:background="@drawable/button"
android:onClick="clockwise"
android:text="zoom"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/button2"
```

```
app:layout_constraintTop_toBottomOf="@+id/button4" />
```

```
<androidx.appcompat.widget.AppCompatButton
```

```
    android:id="@+id/button2"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_centerHorizontal="true"
```

```
    android:layout_marginTop="16dp"
```

```
    android:background="@drawable/button"
```

```
        android:onClick="zoom"
```

```
    android:text="clockwise"
```

```
app:layout_constraintBottom_toBottomOf="@+id/button"
```

```
app:layout_constraintEnd_toStartOf="@+id/button"
```

```
app:layout_constraintStart_toEndOf="@+id/button3"
```

```
app:layout_constraintTop_toBottomOf="@+id/button5" />
```

```
<androidx.appcompat.widget.AppCompatButton
```

```
    android:id="@+id/button3"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_alignTop="@+id/button2"
```

```
    android:layout_marginStart="3dp"
```

```
    android:layout_marginTop="16dp"
```

```
    android:background="@drawable/button"
```

```
        android:onClick="fade"
```

```
        android:text="fade"
```

```
app:layout_constraintBottom_toBottomOf="@+id/button2"
```

```
app:layout_constraintEnd_toStartOf="@+id/button2"
```

```
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toBottomOf="@+id/button6" />
```

```
<androidx.appcompat.widget.AppCompatButton
```

```
    android:id="@+id/button4"
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_below="@+id/button"
```

```
    android:layout_marginStart="16dp"
```

```
    android:layout_marginEnd="17dp"
```

```
    android:background="@drawable/button"
```

```
    android:onClick="blink"
        android:text="blink"
```

```
app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintHorizontal_bias="0.0"
```

```
app:layout_constraintStart_toEndOf="@+id/button5"
```

```
app:layout_constraintTop_toTopOf="@+id/button5" />
```

```
<androidx.appcompat.widget.AppCompatButton
```

```
    android:id="@+id/button5"
```

```
    android:layout_width="0dp"
```

```
    android:layout_height="48dp"
```

```
    android:layout_below="@+id/button2"
```

```

"

android:layout_marginTop="100dp"

android:background="@drawable/butt
on"
        android:onClick="move"
        android:text="move"

app:layout_constraintBottom_toTopOf
f="@+id/button2"

app:layout_constraintEnd_toStartOf
="@+id/button4"

app:layout_constraintStart_toEndOf
="@+id/button6"

app:layout_constraintTop_toBottomOf
f="@+id/imageView" />

<androidx.appcompat.widget.AppComp
atButton

android:id="@+id/button6"

android:layout_width="wrap_content
"

android:layout_height="wrap_conten
t"

android:layout_below="@+id/button3
"

android:layout_marginStart="18dp"

android:layout_marginEnd="15dp"

android:layout_marginBottom="1dp"

android:background="@drawable/butt
on"

android:onClick="slide"
        android:text="slide"

app:layout_constraintBottom_toTopOf
f="@+id/button3"

app:layout_constraintEnd_toStartOf
="@+id/button5"

app:layout_constraintStart_toStart
Of="parent"

app:layout_constraintTop_toTopOf="
@+id/button5"

app:layout_constraintVertical_bias

```

```

="0.0" />

</androidx.constraintlayout.widget
.ConstraintLayout>

</RelativeLayout>

```

MainActivity.java

```
package com.example.pract_3;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.ImageView;
import android.widget.Toast;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        public void clockwise(View view) {
            ImageView image =
                (ImageView) findViewById(R.id.image_view);
            Animation animation =
                AnimationUtils.loadAnimation(getApplicationContext(),
                    R.anim.myanimation);

            image.startAnimation(animation);
        }

        public void zoom(View view) {
            ImageView image =
                (ImageView) findViewById(R.id.image_view);
            Animation animation1 =
                AnimationUtils.loadAnimation(getApplicationContext(),
                    R.anim.clockwise);

            image.startAnimation(animation1);
        }

        public void fade(View view) {
            ImageView image =
                (ImageView) findViewById(R.id.image_view);
            Animation animation1 =
                AnimationUtils.loadAnimation(getApplicationContext(),
```

```
                R.anim.fade);

            image.startAnimation(animation1);
        }

        public void blink(View view) {
            ImageView image =
                (ImageView) findViewById(R.id.image_view);
            Animation animation1 =
                AnimationUtils.loadAnimation(getApplicationContext(),
                    R.anim.blink);

            image.startAnimation(animation1);
        }

        public void move(View view) {
            ImageView image =
                (ImageView) findViewById(R.id.image_view);
            Animation animation1 =
                AnimationUtils.loadAnimation(getApplicationContext(), R.anim.move);

            image.startAnimation(animation1);
        }

        public void slide(View view) {
            ImageView image =
                (ImageView) findViewById(R.id.image_view);
            Animation animation1 =
                AnimationUtils.loadAnimation(getApplicationContext(), R.anim.slide);

            image.startAnimation(animation1);
        }
    }
}
```

fade.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set
xmlns:android="http://schemas.android.com/apk/res/android"

android:interpolator="@android:anim/accelerate_interpolator" >

    <alpha
        android:fromAlpha="0"
        android:toAlpha="1"
        android:duration="2000" >
    </alpha>

    <alpha
        android:startOffset="2000"
        android:fromAlpha="1"
        android:toAlpha="0"
        android:duration="2000" >
    </alpha>

</set>
```

clockwise.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set
xmlns:android="http://schemas.android.com/apk/res/android">

    <rotate
xmlns:android="http://schemas.android.com/apk/res/android"
        android:fromDegrees="0"
        android:toDegrees="360"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="5000" >
    </rotate>

    <rotate
xmlns:android="http://schemas.android.com/apk/res/android"
        android:startOffset="5000"
        android:fromDegrees="360"
        android:toDegrees="0"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="5000" >
    </rotate>

</set>
```

myanimation.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set
xmlns:android="http://schemas.android.com/apk/res/android">

    <scale
xmlns:android="http://schemas.android.com/apk/res/android"
        android:fromXScale="0.5"
        android:toXScale="3.0"
        android:fromYScale="0.5"
        android:toYScale="3.0"
        android:duration="5000"
        android:pivotX="50%"
        android:pivotY="50%" >
    </scale>

    <scale
xmlns:android="http://schemas.android.com/apk/res/android"
        android:startOffset="5000"
        android:fromXScale="3.0"
        android:toXScale="0.5"
        android:fromYScale="3.0"
        android:toYScale="0.5"
        android:duration="5000"
        android:pivotX="50%"
        android:pivotY="50%" >
    </scale>

</set>
```

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:interpolator="@android:anim/accelerate_interpolator"
            android:duration="600"

        android:repeatMode="reverse"

        android:repeatCount="infinite"/>
</set>
```

move.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set
xmlns:android="http://schemas.android.com/apk/res/android"

android:interpolator="@android:anim/linear_interpolator"
    android:fillAfter="true">

    <translate
        android:fromXDelta="0%p"
        android:toXDelta="75%p"
        android:duration="800" />
</set>
```

slide.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set
xmlns:android="http://schemas.android.com/apk/res/android"
    android:fillAfter="true" >

    <scale
        android:duration="500"
        android:fromXScale="1.0"
        android:fromYScale="1.0"

        android:interpolator="@android:anim/linear_interpolator"
        android:toXScale="1.0"
        android:toYScale="0.0" />
</set>
```

OUTPUT

