

Activity_main.xml

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

    <ImageView
        android:id="@+id/image"
        android:layout_width="40sp"
        android:layout_height="100dp"
        android:src="@drawable/ic_baseline_android_24"
        android:layout_marginStart="170dp"
        android:layout_centerInParent="true" />

    <ListView
        android:id="@+id/listview"
        android:layout_width="300dp"
        android:layout_height="300dp"
        android:layout_alignParentBottom="true"
        android:layout_marginTop="500dp"
        android:layout_marginStart="40dp"
        android:layout_marginBottom="20dp"/>

</RelativeLayout>
```

MainActivity.java

```
package com.example.practical25e1;

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.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    ListView listView;
    ImageView imageView;
    String[] list = {"Clockwise/Anti Clockwise","Zoom in/Out","Fade in/Out"};
    int z=0, c=0, f=0;

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

        listView = findViewById(R.id.listview);
        imageView = findViewById(R.id.image);

        ArrayAdapter<String> adapter = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1,list);
        listView.setAdapter(adapter);

        listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```

```

        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int i,
long l) {
            String value;
            value = adapter.getItem(i);
            Toast.makeText(MainActivity.this, value,
Toast.LENGTH_SHORT).show();

            switch (value){
                case "Zoom in/Out":
                    if(z==0){
                        Animation animation =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.zoom_in);
                        imageView.startAnimation(animation);
                        z=1;
                    }
                    else{
                        Animation animation =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.zoom_out);
                        imageView.startAnimation(animation);
                        z=0;
                    }
                    break;
                case "Clockwise/Anti Clockwise" :
                    if(c==0){
                        Animation animation =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.clockwise);
                        imageView.startAnimation(animation);
                        c=1;
                    }
                    else{
                        Animation animation =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.anticlockwise);
                        imageView.startAnimation(animation);
                        c=0;
                    }
                    break;
                case "Fade in/Out":
                    if(f==0){
                        Animation animation =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.fade_in);
                        imageView.startAnimation(animation);
                        f=1;
                    }
                    else{
                        Animation animation =
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.fade_out);
                        imageView.startAnimation(animation);
                        f=0;
                    }
                    break;
            }
        }
    });
}
}

```

clockwise.xml

```

<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
android:interpolator="@android:anim/cycle_interpolator">
    <rotate android:fromDegrees="0"

```

```
        android:toDegrees="360"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="5000" />
</set>
```

anti_clockwise.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/cycle_interpolator">
    <rotate android:fromDegrees="360"
        android:toDegrees="0"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration="5000" />
</set>
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:fillAfter = "true">

    <scale
        xmlns:android="http://schemas.android.com/apk/res/android"
        android:duration = "2500"
        android:fromXScale = "1"
        android:fromYScale = "1"
        android:pivotX = "50%"
        android:pivotY = "50%"
        android:toXScale = ".2"
        android:toYScale = ".2" />

</set>
```

zoom_in.xml

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

    <scale
        xmlns:android = "http://schemas.android.com/apk/res/android"
        android:duration = "1000"
        android:fromXScale = "1"
        android:fromYScale = "1"
        android:pivotX = "50%"
        android:pivotY = "50%"
        android:toXScale = "2"
        android:toYScale = "2"/>

</set>
```

zoom_out.xml

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

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

```
        android:duration = "2500"
        android:fromXScale = "1"
        android:fromYScale = "1"
        android:pivotX = "50%"
        android:pivotY = "50%"
        android:toXScale = ".2"
        android:toYScale = ".2" />
</set>
```

fade_in.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/linear_interpolator">
    <alpha
        android:duration="2000"
        android:fromAlpha="0.1"
        android:toAlpha="1.0">
    </alpha>
</set>
```

fade_out.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:interpolator="@android:anim/linear_interpolator">
    <alpha
        android:duration="2000"
        android:fromAlpha="1.0"
        android:toAlpha="0.1" >
    </alpha>
</set>
```