QUE 1. Write a program to rotate the image in clockwise/anticlockwise, zoom IN/Zoom OUT ,Fade IN/Fade OUT by using the following GUI.

ActivityMain.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout 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">
  <Button  android:id="@+id/fo"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="206dp" android:layout_y="583dp"  android:text="fade out" />
  <Button   android:id="@+id/zi"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="27dp" android:layout_y="456dp" android:text="zoom in" />
  <Button  android:id="@+id/zo"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="203dp"  android:layout_y="456dp"  android:text="zoom out" />
  <Button  android:id="@+id/c"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="28dp"   android:layout_y="518dp" android:text="clockwise" />
  <Button android:id="@+id/ac"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="207dp"  android:layout_y="518dp"  android:text="Anti clockwise" />
  <Button android:id="@+id/fi"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_x="27dp"  android:layout_y="587dp"android:text="fade in" />
  <ImageView
    android:layout_width="304dp"  android:layout_height="317dp"
    android:id="@+id/iv"           android:layout_x="44dp"
    android:layout_y="85dp"        android:src="@drawable/android"/>
</AbsoluteLayout>
```

// fade_in.xml	fade_out.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="500" />`
`</set>`
	`<?xml version="1.0" encoding="utf-8"?>`
	`<setxmlns:android="http://schemas.android.com/apk/res/android">`
	`  <alpha  android:fromAlpha="1.0"`
	`    android:toAlpha="0.0"   android:duration="500" />`
	`</set>`

MainActivity.java

```
MainActivity.java  pr25
package com.example.animation;
import androidx.appcompat.app.
AppCompatActivity;
import android.view.*;
```
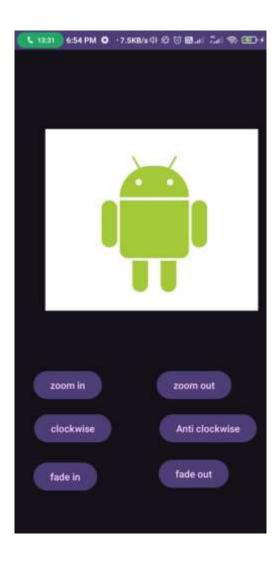
```
import android.os.Bundle;
import android.view.animation.Animation;
import android.view.animation
.AnimationUtils;import android.widget.*;
```

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```
public class MainActivity extends
AppCompatActivity {
Button zi,zo,fi,fo,rc,ra;   ImageView iv;
   protected void onCreate(Bundle
savedInstanceState) {
     super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
     zi=findViewById(R.id.zi);
     zo=findViewById(R.id.zo);
     fi=findViewById(R.id.fi);
     fo=findViewById(R.id.fo);
     rc=findViewById(R.id.c);
     ra=findViewById(R.id.ac);
     iv=findViewById(R.id.iv);
     zi.setOnClickListener(new
View.OnClickListener(){
public void onClick(View v){
iv.setScaleX(iv.getScaleX()+(float)0.1);
iv.setScaleY(iv.getScaleY()+(float)0.1);}});
     zo.setOnClickListener(new
View.OnClickListener(){
        public void onClick(View v){
```

```
iv.setScaleX(iv.getScaleX()-(float)0.1);
iv.setScaleY(iv.getScaleY()-(float)0.1);}});
rc.setOnClickListener(new
View.OnClickListener(){
public void onClick(View v){iv.
setRotation((float)iv.getRotation()+90);}});
ra.setOnClickListener(new
View.OnClickListener(){
public void onClick(View v){iv.
setRotation((float)iv.getRotation()-90);}});
fi.setOnClickListener(new
View.OnClickListener(){public void
onClick(View v){Animation afi=
AnimationUtils.loadAnimation(getApplicationC
ontext(),R.anim.fade_in);
iv.startAnimation(afi);}});
fo.setOnClickListener(new
View.OnClickListener(){public void
onClick(View v){Animation afo=
AnimationUtils.loadAnimation(getApplicationC
ontext(),R.anim.fade_out);iv.startAnimation(af
o);}});}}
```

OUTPUT:

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