**Assignment:-7**

**7. create an android application to demostrate twinned animation**

**Ans :**

**MainActivity.java :**

package f\_app.android.com.tweenanim;

import android.support.v7.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 {

private ImageView image;

private Button clockwise,zoom,fade;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

image =(ImageView)findViewById(R.id.*imageView*);

clockwise = (Button)findViewById(R.id.*button*);

zoom = (Button)findViewById(R.id.*button2*);

fade = (Button)findViewById(R.id.*button3*);

clockwise.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

image.startAnimation(animation);

}

});

zoom.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

image.startAnimation(animation);

}

});

fade.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

image.startAnimation(animation);

}

});

}

}

**Style.xml :**

<resources>

*<!-- Base application theme. -->*

<style name="AppTheme" parent="Base.Theme.AppCompat.Light.DarkActionBar">

*<!-- Customize your theme here. -->*

<item name="colorPrimary">@color/colorPrimary</item>

<item name="colorPrimaryDark">@color/colorPrimaryDark</item>

<item name="colorAccent">@color/colorAccent</item>

</style>

</resources>

Clock.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>

</set>

Fade.xml :

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

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

<alpha android:fromAlpha="0"

android:toAlpha="1"

android:duration="2000" >

</alpha>

</set>

Zoom.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>

</set>

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/imageView"

android:layout\_width="wrap\_content"

android:layout\_height="232dp"

android:layout\_alignParentStart="true"

android:layout\_alignParentTop="true"

android:layout\_marginTop="80dp"

app:srcCompat="@drawable/img" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_alignParentStart="true"

android:layout\_marginBottom="108dp"

android:layout\_marginStart="14dp"

android:text="CLOCKWISE" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignTop="@+id/button"

android:layout\_centerHorizontal="true"

android:text="ZOOM" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignTop="@+id/button"

android:layout\_marginEnd="32dp"

android:text="FADE" />

</RelativeLayout>

OUTPUT : CLOCKWISE :

 

ZOOM : FADE :

 