

Assignment:-7

7. create an android application to demonstrate 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 :

