**Practical No.14**

**Aim:** Program for simple Animation activity in android.

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**Class:** BCA-III Sem-V

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**Code:**

**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"  
 android:layout\_margin="10dp"  
 tools:context=".MainActivity">  
 <TextView  
 android:id="@+id/text"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerInParent="true"  
 android:text="Hello"  
 android:textColor="@color/black"  
 android:textSize="24dp"  
 android:textStyle="bold"  
 tools:ignore="HardcodedText,SpUsage,TextSizeCheck" />  
 <Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="blink"  
 android:layout\_marginRight="10dp" />  
 <Button  
 android:id="@+id/btn2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/rotate"  
 android:layout\_marginRight="10dp"  
 android:layout\_below="@id/btn1"/>  
 <Button  
 android:id="@+id/btn3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/zoom"  
 android:layout\_marginRight="10dp"  
 android:layout\_toRightOf="@id/btn1"/>  
 <Button  
 android:id="@+id/btn4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="translate"  
 android:layout\_marginRight="10dp"  
 android:layout\_below="@id/btn3"  
 android:layout\_toRightOf="@+id/btn2"/>  
</RelativeLayout>

**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="500"  
 android:repeatMode="reverse"  
 android:repeatCount="infinite"/>  
</set>

**rotate.xml**

<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android"  
  
 android:interpolator="@android:anim/linear\_interpolator">  
 <rotate  
 android:fromDegrees="0"  
 android:toDegrees="720"  
 android:duration="1000"  
 android:startOffset="500"  
 android:pivotX="50%"  
 android:pivotY="50%"  
 />  
  
</set>

**zoom.xml**

<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android"  
 android:fillAfter="true">  
 <scale  
 android:fromXScale="1"  
 android:toXScale="3"  
 android:fromYScale="1"  
 android:toYScale="3"  
 android:duration="1000"  
 android:pivotX="50%"  
 android:pivotY="50%"  
 />  
</set>

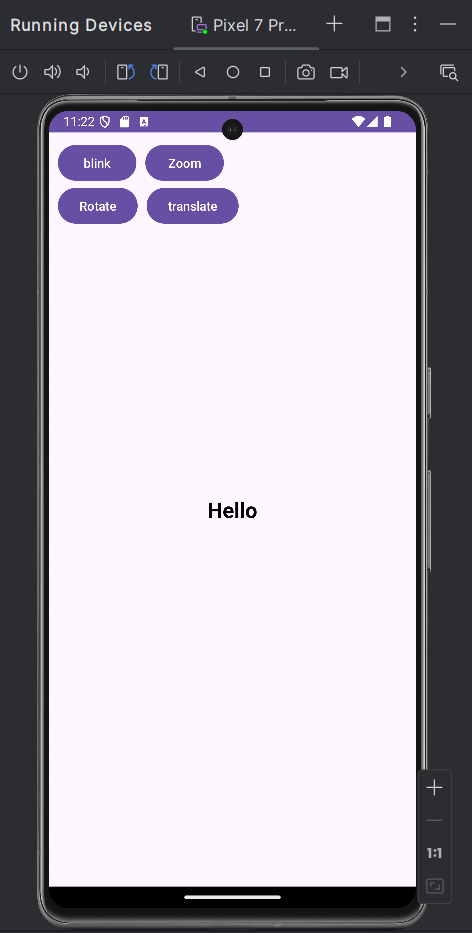
**translate.xml**

<?xml version="1.0" encoding="utf-8"?>  
<set xmlns:android="http://schemas.android.com/apk/res/android"  
 android:interpolator="@android:anim/bounce\_interpolator"  
 android:fillAfter="true">  
 <translate  
 android:fromXDelta="0"  
 android:toXDelta="100"  
 android:fromYDelta="0"  
 android:toYDelta="300"  
 android:duration="1000" />  
</set>

**Main\_Activity.java**

package com.example.animation;  
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.Button;  
import android.widget.ImageView;  
import android.widget.TextView;  
public class MainActivity extends AppCompatActivity {.  
 Button btn1, btn2, btn3, btn4;  
 TextView text;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 btn1 = findViewById(R.id.*btn1*);  
 btn2 = findViewById(R.id.*btn2*);  
 btn3 = findViewById(R.id.*btn3*);  
 btn4 = findViewById(R.id.*btn4*);  
 text = findViewById(R.id.*text*);  
 Animation blinkAnimation=AnimationUtils.*loadAnimation*( this, R.anim.*blink*);  
 btn1.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick (View view){  
 text.startAnimation(blinkAnimation);  
 }  
 });  
 Animation RotateAnimation=AnimationUtils.*loadAnimation*( this, R.anim.*rotate*);  
 btn2.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick (View view){  
 text.startAnimation(RotateAnimation);  
 }  
 });  
 Animation zoomAnimation=AnimationUtils.*loadAnimation*( this, R.anim.*zoom*);  
 btn3.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick (View view){  
 text.startAnimation(zoomAnimation);  
 }  
 });  
 Animation translateAnimation=AnimationUtils.*loadAnimation*( this, R.anim.*translate*);  
 btn4.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick (View view){  
 text.startAnimation(translateAnimation);  
 }  
 });  
 }  
}

**Output:**

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