**XML Layout**

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

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

    android:layout\_width="fill\_parent"

    android:layout\_height="fill\_parent"

    android:orientation="vertical" >

    <Button

        android:id="@+id/bounceBallButton"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_centerHorizontal="true"

        android:text="Bounce Ball" />

    <ImageView

        android:id="@+id/bounceBallImage"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_centerHorizontal="true"

        android:layout\_below="@id/bounceBallButton"

        android:background="@drawable/ball\_shape" />

</RelativeLayout>

**ball\_shape.xml (Drawable folder)**<?xml version="1.0" encoding="utf-8"?>

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

    android:shape="oval" >

    <solid android:color="#8c0000" />

    <stroke

        android:width="2dp"

        android:color="#fff" />

    <size

        android:height="80dp"

        android:width="80dp" />

</shape>

**Java Code**

package com.bouncingball.animation;

import android.app.Activity;

import android.os.Bundle;

import android.util.Log;

import android.view.View;

import android.view.View.OnClickListener;

import android.view.animation.Animation;

import android.view.animation.BounceInterpolator;

import android.view.animation.TranslateAnimation;

import android.view.animation.Animation.AnimationListener;

import android.widget.Button;

import android.widget.ImageView;

public class AnimationStarter extends Activity {

    private static final String TAG = "AnimationStarter";

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.animation\_layout);

        Button bounceBallButton = (Button) findViewById(R.id.bounceBallButton);

        final ImageView bounceBallImage = (ImageView) findViewById(R.id.bounceBallImage);

        bounceBallButton.setOnClickListener(new OnClickListener() {

            @Override

            public void onClick(View v) {

                bounceBallImage.clearAnimation();

                TranslateAnimation transAnim = new TranslateAnimation(0, 0, 0,

                        getDisplayHeight()/2);

                transAnim.setStartOffset(500);

                transAnim.setDuration(3000);

                transAnim.setFillAfter(true);

                transAnim.setInterpolator(new BounceInterpolator());

                transAnim.setAnimationListener(new AnimationListener() {

                    @Override

                    public void onAnimationStart(Animation animation) {

                        Log.i(TAG, "Starting button dropdown animation");

                    }

                    @Override

                    public void onAnimationRepeat(Animation animation) {

                        // TODO Auto-generated method stub

                    }

                    @Override

                    public void onAnimationEnd(Animation animation) {

                        Log.i(TAG,

                                "Ending button dropdown animation. Clearing animation and setting layout");

                        bounceBallImage.clearAnimation();

                        final int left = bounceBallImage.getLeft();

                        final int top = bounceBallImage.getTop();

                        final int right = bounceBallImage.getRight();

                        final int bottom = bounceBallImage.getBottom();

                        bounceBallImage.layout(left, top, right, bottom);

                    }

                });

                bounceBallImage.startAnimation(transAnim);

            }

        });

    }

    private int getDisplayHeight() {

        return this.getResources().getDisplayMetrics().heightPixels;

    }

}