

Practical - 6

6.1

Activity_imageeffect.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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=".imageeffect">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="303dp"
        android:layout_height="479dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:srcCompat="@drawable/instal" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Imageeffect.java

```

package com.example.practical4;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.ImageView;

public class imageeffect extends AppCompatActivity {

    ImageView imageView;
    Animation animation;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_imageeffect);

        imageView=findViewById(R.id.imageView);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.imageeffect, menu);
        return super.onCreateOptionsMenu(menu);
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {

        switch (item.getItemId())
        {
            case R.id.alpha:
                animation=
                AnimationUtils.loadAnimation(getApplicationContext(),R.anim.alpha);
                imageView.startAnimation(animation);

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```

        break;
        case R.id.rotate:
            animation=
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.rotate);
            imageView.startAnimation(animation);
            break;
        case R.id.scale:
            animation=
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.scale);
            imageView.startAnimation(animation);
            break;
        case R.id.translate:
            animation=
AnimationUtils.loadAnimation(getApplicationContext(),R.anim.translate);
            imageView.startAnimation(animation);
            break;
    }

    return super.onOptionsItemSelected(item);
}

}

```

Imageeffect.xml

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/alpha"
        android:title="Alpha"
    />
    <item
        android:id="@+id/rotate"
        android:title="Rotate"
    />
    <item
        android:id="@+id/scale"
        android:title="Scale"
    />
    <item
        android:id="@+id/translate"
        android:title="Translate"
    />
</menu>

```

Alpha.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='3000'
    />
</set>

```

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Rotate.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">

    <rotate android:fromDegrees="0"
        android:toDegrees="360"
        android:pivotX="50%"
        android:pivotY="50%"
        android:duration='3000' />

</set>
```

Scale.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">

    <scale
        android:pivotY="50%"
        android:pivotX="50%"
        android:fromXScale="100%"
        android:fromYScale="100%"
        android:toXScale="50%"
        android:toYScale="50%"
        android:duration='3000'
        />

</set>
```

Translate.xml

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">

    <translate
        android:fromXDelta="0%"
        android:toXDelta="20%"
        android:duration='3000' />

    <translate
        android:fromYDelta="0%"
        android:toYDelta="20%"
        android:duration='3000'
        />

</set>
```

6.2**Activity_movingimage.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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=".runninganimation">

    <ImageView
        android:id="@+id/imageviewhorse"
        android:layout_width="356dp"
        android:layout_height="251dp"
        app:layout_constraintBottom_toBottomOf="parent"
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        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.49"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.275"
        app:srcCompat="@drawable/animationlist" />

<ImageButton
    android:id="@+id/imageButton"
    android:layout_width="119dp"
    android:layout_height="wrap_content"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.805"
    app:srcCompat="@android:drawable/ic_media_play" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Movingimage.xml

```

package com.example.practical4;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.drawable.AnimationDrawable;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;
import android.widget.ImageView;

import java.util.Timer;
import java.util.TimerTask;

public class runninganimation extends AppCompatActivity {

    ImageButton imageButton;
    ImageView imageView;
    int count=1;
    AnimationDrawable animationDrawable;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_runninganimation);

        imageButton=findViewById(R.id.imageButton);
        imageView=findViewById(R.id.imageviewhorse);
        animationDrawable=(AnimationDrawable) imageView.getDrawable();

        imageButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                animationDrawable.start();
            }
        });
    }
}

```

Animationlist.xml

```

<?xml version="1.0" encoding="utf-8"?>
<animation-list xmlns:android="http://schemas.android.com/apk/res/android">

```

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```
<item android:drawable="@drawable/h1" android:duration="100"/>
<item android:drawable="@drawable/h2" android:duration="100"/>
<item android:drawable="@drawable/h3" android:duration="100"/>
<item android:drawable="@drawable/h4" android:duration="100"/>
<item android:drawable="@drawable/h5" android:duration="100"/>
<item android:drawable="@drawable/h6" android:duration="100"/>
<item android:drawable="@drawable/h7" android:duration="100"/>
<item android:drawable="@drawable/h8" android:duration="100"/>
</animation-list>
```