Mobile Computing Lab
Aim: Write a Program to demonstrate simple Animation Android.

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mainActivity.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center">

    <TextView
        android:id="@+id/myTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="I'm invincible"
        android:textSize="24sp"
        android:visibility="gone"/>

    <Button
        android:id="@+id/animateButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Animate" />
</LinearLayout>
```

fadeIn.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center">

    <TextView
        android:id="@+id/myTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="I'm invincible"
        android:textSize="24sp"
        android:visibility="gone"/>

    <Button
        android:id="@+id/animateButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Animate" />
</LinearLayout>
```

transfrom.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<translate xmlns:android="http://schemas.android.com/apk/res/android"
    android:fromXDelta="-100%"
    android:toXDelta="100%"
    android:duration="2000"
    android:interpolator="@android:anim/accelerate_decelerate_interpolator"
/>
```

mainAcivity.kt

```kotlin
package com.example.animationsasgn
import android.os.Bundle
import android.view.animation.Animation]
import android.view.animation.AnimationUtils
import android.widget.Button
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val myTextView: TextView = findViewById(R.id.myTextView)
        val animateButton: Button = findViewById(R.id.animateButton)

        animateButton.setOnClickListener {
            val fadeIn: Animation = AnimationUtils.loadAnimation(this, R.anim.
                fade_in)
            myTextView.startAnimation(fadeIn)

            myTextView.visibility = TextView.VISIBLE

            // Trigger Translate animation after Fade In
            fadeIn.setAnimationListener(object : Animation.AnimationListener {
                override fun onAnimationStart(animation: Animation?) {}
                override fun onAnimationEnd(animation: Animation?) {
                    val translate: Animation = AnimationUtils.loadAnimation(
                        this@MainActivity, R.anim.translate)
                    myTextView.startAnimation(translate)
                    myTextView.visibility=TextView.GONE
                }
                override fun onAnimationRepeat(animation: Animation?) {}
            })
        }
    }
}
```
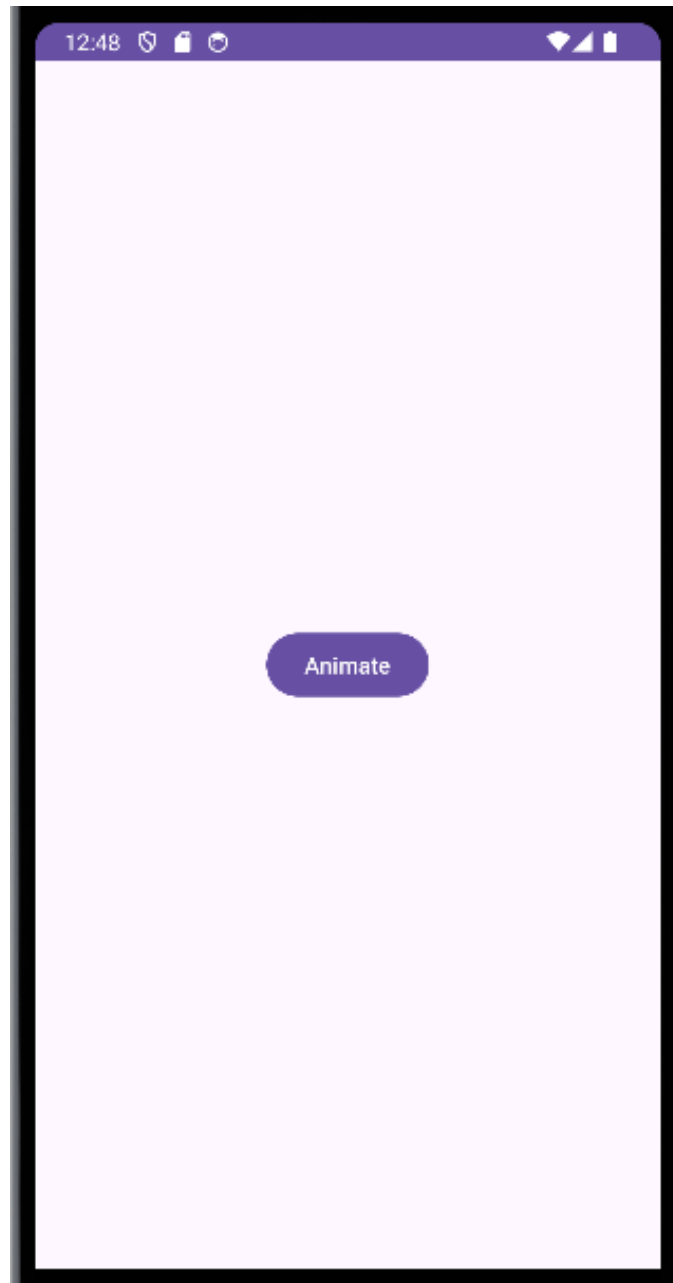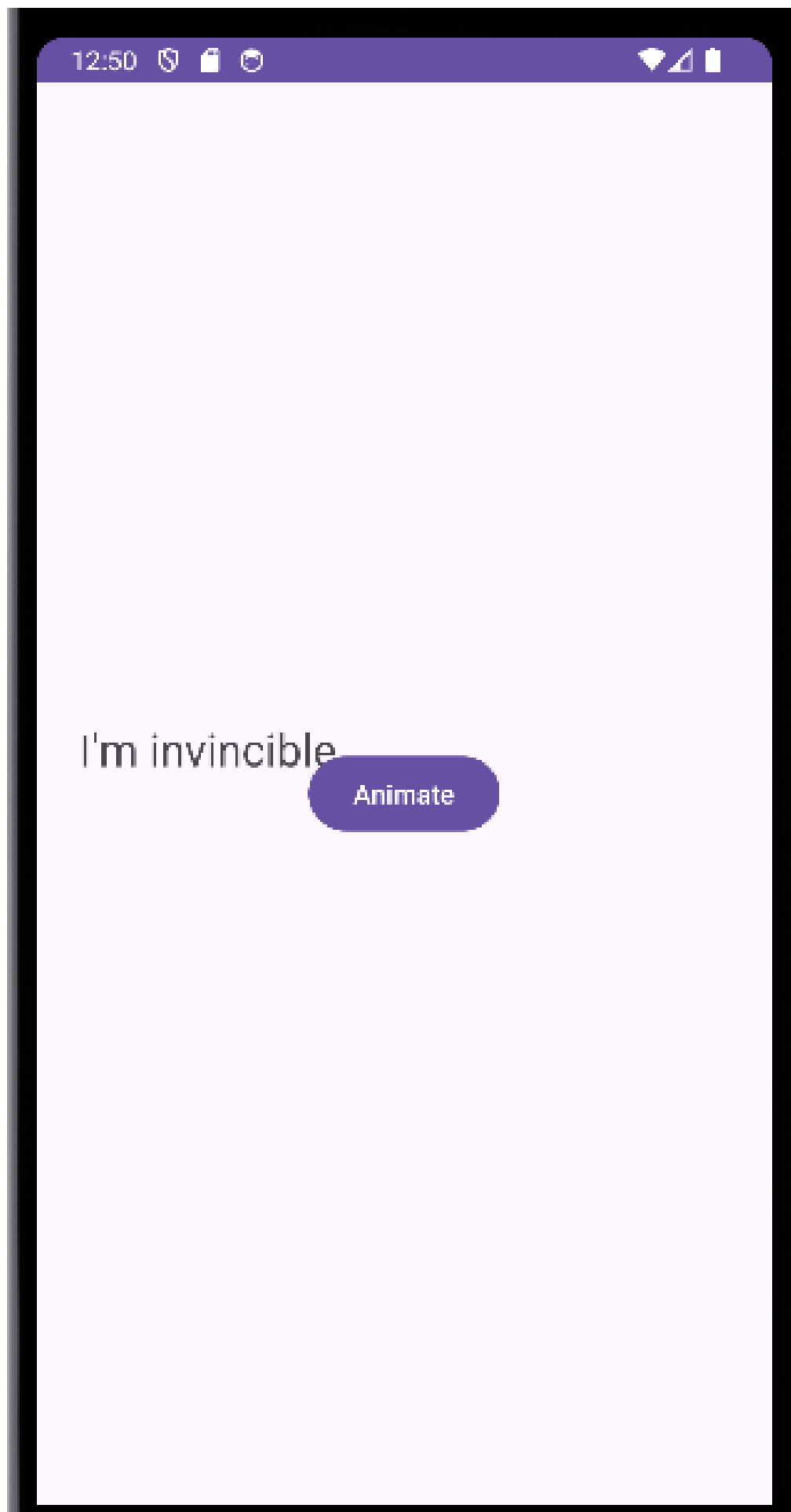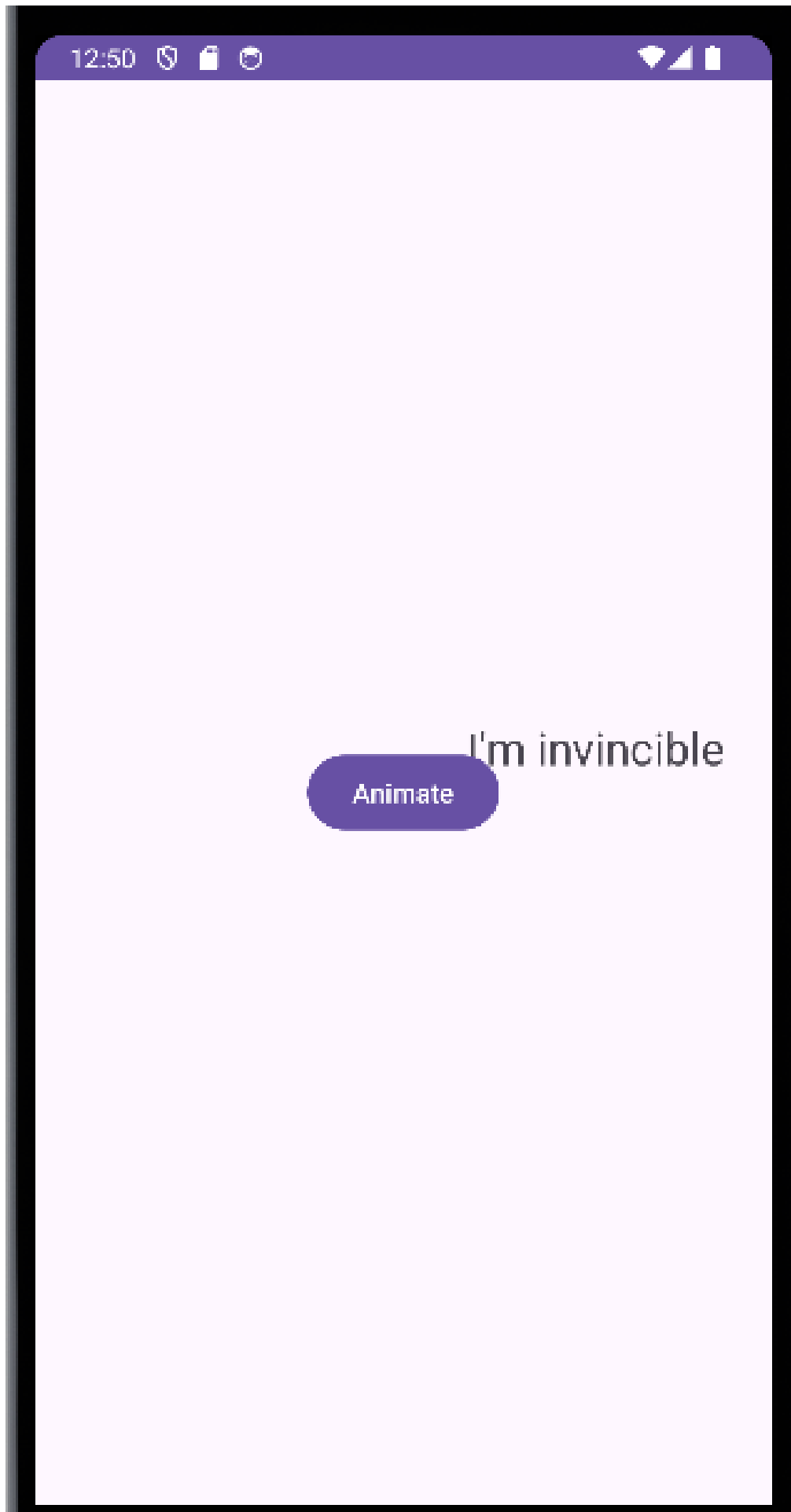
Output:

Figure 1: At the start

Figure 2: Transformation at the start

Figure 3: Transform at the end.