

## Ateeq ullah

### Fa18-bse-050

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### Constraint layout:

```
fun onCreate(savedInstanceState: Bundle?) {  
    super.onCreate(savedInstanceState)  
    setContentView(R.layout.keyframe_one)  
    constraintLayout = findViewById(R.id.constraint_layout) // member variable  
}
```

```
fun animateToKeyframeTwo() {  
    val constraintSet = ConstraintSet()  
    constraintSet.load(this, R.layout.keyframe_two)  
    TransitionManager.beginDelayedTransition()  
    constraintSet.applyTo(constraintLayout)  
}
```

```
<?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"  
android:layout_width="match_parent"  
android:layout_height="match_parent">  
  
    <Button  
        android:id="@+id/button2"  
        android:layout_width="0dp"  
        android:layout_height="wrap_content"  
        android:text="Button"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
// layout/keyframe2.xml
// Keyframe 2 contains another ConstraintLayout with the final positions
```

```
<?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"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <Button
        android:id="@+id/button2"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="Button"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintBottom_toBottomOf="parent" />
    </androidx.constraintlayout.widget.ConstraintLayout>
```

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## Relative layout:

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="16dp"
    android:paddingRight="16dp" >
    <EditText
        android:id="@+id/name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="@string/reminder" />
```

```
<Spinner
    android:id="@+id/dates"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/name"
    android:layout_alignParentLeft="true"
    android:layout_toLeftOf="@+id/times" />
<Spinner
    android:id="@id/times"
    android:layout_width="96dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/name"
    android:layout_alignParentRight="true" />
<Button
    android:layout_width="96dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/times"
    android:layout_alignParentRight="true"
    android:text="@string/done" />
```

```
android:layout_width="fill_parent"
android:layout_height="fill_parent"
android:paddingLeft="16dp"
android:paddingRight="16dp" >
```

```
<EditText
    android:id="@+id/name"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:hint="@string/reminder" />
```

```
<LinearLayout
    android:orientation="vertical"
    android:layout_width="fill_parent"
```

```
android:layout_height="fill_parent"
android:layout_alignParentStart="true"
android:layout_below="@+id/name">
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="New Button"
    android:id="@+id/button" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="New Button"
    android:id="@+id/button2" />
```

```
</LinearLayout>
```

```
</RelativeLayout>
```

```
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```