## 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</pre>
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>
```

## **Relative layout:**

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
   android:layout_width="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>
______
```