# **Experiment - 8**

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**Branch:** CSE **Section/Group:** 20BCS-DM-902(A)

Semester: 6th Subject Code: 20CSP-356

Subject Name: Mobile Application Development LAB

1. Aim: Create an application to represent different kinds of layouts.

## 2. Objective:

Understanding the different types of layouts.

### 3. Program:

### MainActivity.java

```
android:orientation="vertical"
                               android:layout width="match parent"
android:layout_height="match_parent">
  <!-- This is a RelativeLayout -->
  <RelativeLayout
                       android:layout_width="match_parent"
android:layout height="wrap content"
android:padding="16dp">
    <ImageView
                        android:id="@+id/image view"
android:layout width="96dp"
android:layout height="96dp"
                                    android:src="@drawable/my image"
android:layout alignParentStart="true"/>
    <TextView
                      android:id="@+id/text_view"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginStart="101dp"
android:layout_toEndOf="@id/image_view"
                                                 android:text="Hello World!"
android:textSize="24sp" />
  </RelativeLayout>
  <!-- This is a ConstraintLayout -->
  <androidx.constraintlayout.widget.ConstraintLayout</pre>
                                                        android:layout width="match parent"
                                         android:padding="16dp">
android:layout height="wrap content"
    <TextView
                      android:id="@+id/top_text_view"
android:layout width="wrap content"
android:layout height="wrap content"
                                            android:text="Top Text View"
android:textSize="18sp"
       app:layout constraintTop toTopOf="parent"
app:layout_constraintStart_toStartOf="parent"/>
    <Button
android:id="@+id/button"
       app:layout constraintEnd toEndOf="parent"
app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/top text view"
android:layout width="wrap content"
                                           android:layout height="wrap content"
                            tools:layout_editor_absoluteX="215dp"
android:text="Button"
tools:layout editor absoluteY="-8dp" />
    <TextView
       android:id="@+id/bottom text view"
                                                  app:layout constraintStart toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/button"
                                                         android:layout_width="wrap_content"
android:layout_height="wrap_content"
                                            android:text="Bottom Text View"
```

```
android:textSize="18sp"
                              tools:layout editor absoluteX="0dp"
tools:layout_editor_absoluteY="32dp" />
  </androidx.constraintlayout.widget.ConstraintLayout>
  <!-- This is a FrameLayout -->
                     android:layout_width="match_parent"
  <FrameLayout
android:layout height="match parent"
android:padding="16dp">
    <ImageView
android:id="@+id/background_image_view"
android:layout_width="match_parent"
android:layout height="match parent"
android:src="@drawable/background_image"/>
    <TextView
       android:id="@+id/center text view"
                                                android:layout width="wrap content"
android:layout_height="wrap_content"
                                           android:text="Center Text View"
android:textSize="24sp"
                         android:layout gravity="center"/>
  </FrameLayout>
</LinearLayout>
```

#### Output:

