Experiment - 8

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Branch: CSE Section/Group: 20BCS-DM-714(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

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tools:layout editor absoluteY="32dp" />

Discover, Learn, Empower, android:orientation="vertical" android:layout width="match parent" android:layout height="match parent"> <!-- This is a RelativeLayout --> android:layout_width="match_parent" <RelativeLayout android:layout_height="wrap_content" android:padding="16dp"> <ImageView android:id="@+id/image view" android:layout width="96dp" android:src="@drawable/my_image" android:layout height="96dp" 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 android:layout width="match parent" android:padding="16dp"> android:layout_height="wrap_content" android:id="@+id/top_text view" <TextView android:layout width="wrap content" android:layout height="wrap content" android:text="Top Text View" app:layout_constraintTop toTopOf="parent" android:textSize="18sp" 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 height="wrap content" android:layout width="wrap content" tools:layout_editor absoluteX="215dp" android:text="Button" tools:layout editor absoluteY="-8dp" /> android:id="@+id/bottom text view" <TextView 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"

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

Output:

