# Experiment-8

Student Name: Aman Gokul UID: 20BCS5449

Branch: CSE
Semester: 6th
Section/Group: DM-607/A

Subject: MAD Lab

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

## 2. Objective:

Understanding the different types of layouts.

## 3. Program:

#### MainActivity.java

```
package com.example.myapplication8;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

#### activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    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</pre>
            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:layout height="wrap content"
        android:padding="16dp">
        <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"/>
        <But.ton
            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"
            android:text="Button"
            tools:layout editor absoluteX="215dp"
            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 -->
    <FrameLayout
        android:layout width="match parent"
        android: layout height="match parent"
        android:padding="16dp">
        <ImageView</pre>
            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:** 



