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**Roll No:26**

**Batch: MCA B**

**Date:**

**MOBILE APPLICATION DEVELOPMENT LAB**

**Lab Cycle 1**

**Experiment No.: 1**

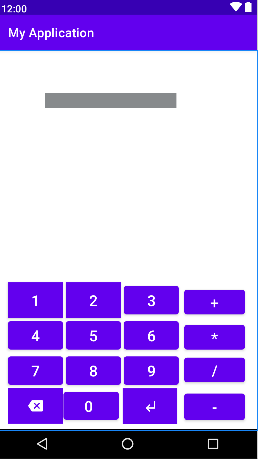
**Aim**

Design a simple calculator, and set properties using .xml file.

**Procedure**

*<?***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"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"**>  
  
 <**Button  
 android:id="@+id/button24"  
 android:layout\_width="96dp"  
 android:layout\_height="51dp"  
 android:layout\_marginStart="296dp"  
 android:layout\_marginBottom="176dp"  
 android:text="+"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button23"  
 android:layout\_width="96dp"  
 android:layout\_height="51dp"  
 android:layout\_marginStart="296dp"  
 android:layout\_marginBottom="120dp"  
 android:text="\*"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button22"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="200dp"  
 android:layout\_marginBottom="176dp"  
 android:text="3"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button21"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="108dp"  
 android:layout\_marginBottom="176dp"  
 android:text="2"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:background="#2196F3"  
 tools:textSize="24sp"** />  
  
 <**Button  
 android:id="@+id/button20"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginBottom="176dp"  
 android:background="#00BCD4"  
 android:text="1"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:textSize="24sp"  
 tools:textStyle="normal"** />  
  
 <**Button  
 android:id="@+id/button19"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="200dp"  
 android:layout\_marginBottom="120dp"  
 android:text="6"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:textSize="24sp"** />  
  
 <**Button  
 android:id="@+id/button18"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="108dp"  
 android:layout\_marginBottom="120dp"  
 android:text="5"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button17"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginBottom="120dp"  
 android:text="4"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button16"  
 android:layout\_width="96dp"  
 android:layout\_height="54dp"  
 android:layout\_marginStart="296dp"  
 android:layout\_marginBottom="8dp"  
 android:text="-"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**ImageButton  
 android:id="@+id/button12"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginBottom="8dp"  
 android:src="@drawable/ic\_baseline\_backspace\_24"  
 android:textSize="16sp"  
 app:tint="@color/white"  
 android:background="@color/design\_default\_color\_primary"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button13"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginBottom="64dp"  
 android:text="7"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button14"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="108dp"  
 android:layout\_marginBottom="64dp"  
 android:text="8"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/button15"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="200dp"  
 android:layout\_marginBottom="64dp"  
 android:text="9"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**ImageButton  
 android:id="@+id/button11"  
 android:layout\_width="87dp"  
 android:layout\_height="57dp"  
 android:layout\_marginStart="198dp"  
 android:layout\_marginTop="538dp"  
 android:layout\_marginBottom="16dp"  
 android:src="@drawable/ic\_baseline\_subdirectory\_arrow\_left\_24"  
 app:tint="@color/white"  
 android:background="@color/design\_default\_color\_primary"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0"** />  
  
 <**Button  
 android:id="@+id/button10"  
 android:layout\_width="88dp"  
 android:layout\_height="56dp"  
 android:layout\_marginStart="104dp"  
 android:layout\_marginTop="538dp"  
 android:layout\_marginBottom="16dp"  
 android:text="0 "  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0"** />  
  
 <**Button  
 android:id="@+id/button9"  
 android:layout\_width="96dp"  
 android:layout\_height="51dp"  
 android:layout\_marginStart="296dp"  
 android:layout\_marginBottom="68dp"  
 android:text="/"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="@color/black"  
 android:backgroundTint="#878A8C"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""  
 tools:layout\_editor\_absoluteX="75dp"  
 tools:layout\_editor\_absoluteY="69dp"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**Output Screenshot**



**Experiment No.: 2**

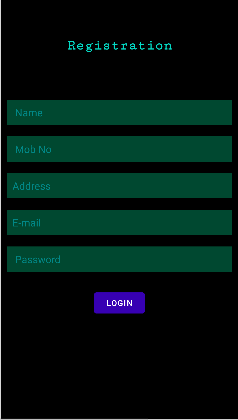
**Aim**

Develop an application for a simple registration page using .xml file.

**Procedure**

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/black"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/signin"  
 android:text="Registration"  
 android:textColor="@color/teal\_200"  
 android:textSize="25dp"  
 android:textStyle="bold"  
 android:fontFamily="serif-monospace"  
 android:layout\_margin="70dp"  
 android:gravity="center"/>  
  
 <EditText  
 android:id="@+id/username"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/signin"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#6000BF80"  
 android:drawablePadding="20dp"  
 android:hint=" Name"  
 android:padding="10dp"  
 android:textColor="@color/teal\_200"  
 android:textColorHint="@color/teal\_700" />  
  
 <EditText  
 android:id="@+id/et2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/username"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#6000BF80"  
 android:drawablePadding="20dp"  
 android:hint=" Mob No"  
 android:padding="10dp"  
 android:textColor="@color/teal\_200"  
 android:textColorHint="@color/teal\_700" />  
  
 <EditText  
 android:id="@+id/et3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/et2"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#6000BF80"  
 android:drawablePadding="20dp"  
 android:hint="Address"  
 android:padding="10dp"  
 android:textColor="@color/teal\_200"  
 android:textColorHint="@color/teal\_700" />  
  
 <EditText  
 android:id="@+id/et4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/et3"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#6000BF80"  
 android:drawablePadding="20dp"  
 android:hint="E-mail"  
 android:padding="10dp"  
 android:textColor="@color/teal\_200"  
 android:textColorHint="@color/teal\_700" />  
  
 <EditText  
 android:id="@+id/et5"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/et4"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#6000BF80"  
 android:drawablePadding="20dp"  
 android:hint=" Password"  
 android:padding="10dp"  
 android:textColor="#FF0000"  
 android:textColorHint="@color/teal\_700" />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/submit"  
 android:layout\_below="@+id/et5"  
 android:text="LOGIN"  
 android:backgroundTint="@color/purple\_700"  
 android:layout\_centerHorizontal="true"  
 android:layout\_margin="20dp"/>  
  
</RelativeLayout>

**Output Screenshot**



**Experiment No.: 3**

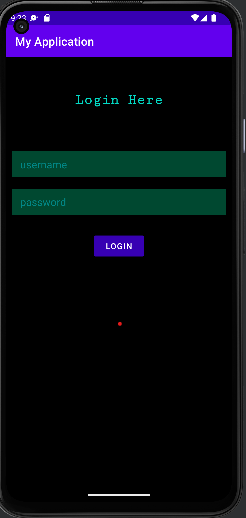
**Aim**

Design an application for the login page using .xml file.

**Procedure**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@color/black"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/signin"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="70dp"  
 android:layout\_marginTop="60dp"  
 android:layout\_marginEnd="70dp"  
 android:layout\_marginBottom="70dp"  
 android:fontFamily="serif-monospace"  
 android:gravity="center"  
 android:text="Login Here"  
 android:textColor="@color/teal\_200"  
 android:textSize="25dp"  
 android:textStyle="bold"** />  
  
 <**EditText  
 android:id="@+id/username"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/signin"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="5dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#6000BF80"  
 android:drawablePadding="20dp"  
 android:hint=" username"  
 android:padding="10dp"  
 android:textColor="@color/teal\_200"  
 android:textColorHint="@color/teal\_700"** />  
  
 <**EditText  
 android:id="@+id/et2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/username"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#6000BF80"  
 android:drawablePadding="20dp"  
 android:hint=" password"  
 android:padding="10dp"  
 android:textColor="@color/teal\_200"  
 android:textColorHint="@color/teal\_700"** />  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/submit"  
 android:layout\_below="@+id/et2"  
 android:text="LOGIN"  
 android:backgroundTint="@color/purple\_700"  
 android:layout\_centerHorizontal="true"  
 android:layout\_margin="20dp"**/>  
  
</**RelativeLayout**>

**Output Screenshot**

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**Experiment No.: 4**

**Aim**

Develop your Profile page using .xml file.

**Procedure**

*<?***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"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#FFFFFF"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="168dp"  
 android:layout\_height="36dp"  
 android:gravity="center"  
 android:text="NIMYA SATHEESH"  
 android:textSize="20sp"  
 tools:layout\_editor\_absoluteX="168dp"  
 tools:layout\_editor\_absoluteY="96dp"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="164dp"  
 android:layout\_height="23dp"  
 android:gravity="center"  
 android:text="nimyasatheesh@gmail.com"  
 tools:layout\_editor\_absoluteX="131dp"  
 tools:layout\_editor\_absoluteY="252dp"** />  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="164dp"  
 android:layout\_height="23dp"  
 android:gravity="center"  
 android:text="15-03-2000"  
 tools:layout\_editor\_absoluteX="131dp"  
 tools:layout\_editor\_absoluteY="289dp"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="164dp"  
 android:layout\_height="23dp"  
 android:gravity="center"  
 android:text="Female"  
 tools:layout\_editor\_absoluteX="131dp"  
 tools:layout\_editor\_absoluteY="331dp"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="164dp"  
 android:layout\_height="23dp"  
 android:gravity="center"  
 android:text="9775369527"  
 tools:layout\_editor\_absoluteX="138dp"  
 tools:layout\_editor\_absoluteY="377dp"** />  
  
 <**TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Email :"  
 tools:layout\_editor\_absoluteX="39dp"  
 tools:layout\_editor\_absoluteY="252dp"** />  
  
 <**TextView  
 android:id="@+id/textView6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="DOB :"  
 tools:layout\_editor\_absoluteX="39dp"  
 tools:layout\_editor\_absoluteY="289dp"** />  
  
 <**TextView  
 android:id="@+id/textView7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Gender :"  
 tools:layout\_editor\_absoluteX="29dp"  
 tools:layout\_editor\_absoluteY="335dp"** />  
  
 <**TextView  
 android:id="@+id/textView8"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Phone Number :"  
 tools:layout\_editor\_absoluteX="16dp"  
 tools:layout\_editor\_absoluteY="381dp"** />  
  
 <**TextView  
 android:id="@+id/textView9"  
 android:layout\_width="415dp"  
 android:layout\_height="58dp"  
 android:background="#DC5A51"  
 android:gravity="center"  
 android:text="MY PROFILE"  
 android:textSize="34sp"  
 tools:layout\_editor\_absoluteX="-2dp"  
 tools:layout\_editor\_absoluteY="-4dp"** />  
  
 <**ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="132dp"  
 android:layout\_height="153dp"  
 android:src="@drawable/avatarandroid"  
 tools:layout\_editor\_absoluteX="16dp"  
 tools:layout\_editor\_absoluteY="68dp"** />  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**Output Screenshot**

