**Name: Nimya Satheesh**

**Roll No:26**

**Batch: MCA B**

**Date:**

**MOBILE APPLICATION DEVELOPMENT LAB**

**Lab Cycle 2**

**Experiment No.: 5**

**Aim**

Design a Login Form with username and password using LinearLayout and toast valid credentials

**Procedure**

**Output Screenshot**

**Experiment No.: 6**

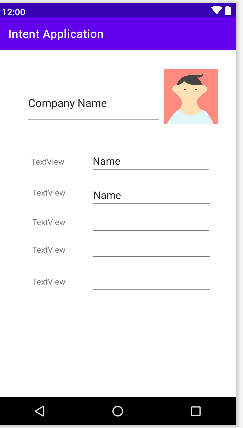
**Aim**

Create an application to design a Visiting Card. The Visiting card should have a company logo at the top right corner. The company name should be displayed in Capital letters, aligned to the centre. Information like the name of the employee, job title, phone number, address, email, fax and the website address is to be displayed. Insert a horizontal line between the job title and the phone number.

**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"**>  
  
 <**EditText  
 android:textSize="50px"  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="235dp"  
 android:layout\_height="73dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Company Name"  
 tools:layout\_editor\_absoluteX="47dp"  
 tools:layout\_editor\_absoluteY="56dp"** />  
  
 <**ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="102dp"  
 android:layout\_height="95dp"  
 tools:layout\_editor\_absoluteX="282dp"  
 tools:layout\_editor\_absoluteY="34dp"  
 tools:srcCompat="@tools:sample/avatars"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 tools:layout\_editor\_absoluteX="56dp"  
 tools:layout\_editor\_absoluteY="184dp"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Name"  
 tools:layout\_editor\_absoluteX="159dp"  
 tools:layout\_editor\_absoluteY="171dp"** />  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 tools:layout\_editor\_absoluteX="58dp"  
 tools:layout\_editor\_absoluteY="238dp"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPersonName3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Name"  
 tools:layout\_editor\_absoluteX="160dp"  
 tools:layout\_editor\_absoluteY="230dp"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 tools:layout\_editor\_absoluteX="58dp"  
 tools:layout\_editor\_absoluteY="289dp"** />  
  
 <**EditText  
 android:id="@+id/editTextPhone"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="phone"  
 tools:layout\_editor\_absoluteX="159dp"  
 tools:layout\_editor\_absoluteY="277dp"** />  
  
 <**EditText  
 android:id="@+id/editTextTextPostalAddress"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPostalAddress"  
 tools:layout\_editor\_absoluteX="160dp"  
 tools:layout\_editor\_absoluteY="322dp"** />  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 tools:layout\_editor\_absoluteX="58dp"  
 tools:layout\_editor\_absoluteY="337dp"** />  
  
 <**EditText  
 android:id="@+id/editTextTextEmailAddress"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textEmailAddress"  
 tools:layout\_editor\_absoluteX="160dp"  
 tools:layout\_editor\_absoluteY="379dp"** />  
  
 <**TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 tools:layout\_editor\_absoluteX="58dp"  
 tools:layout\_editor\_absoluteY="392dp"** />  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**Output Screenshot**



**Experiment No.: 7**

**Aim**

Develop an Android application using controls like Button, TextView, EditText for designing a calculator having basic functionality like Addition, Subtraction, Multiplication, and Division.

**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**

