**Android Lab Cycle 2**

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

**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="@color/design\_default\_color\_error"**

**tools:context=".MainActivity"**>

<**ImageView**

**android:id="@+id/imageView"**

**android:layout\_width="115dp"**

**android:layout\_height="96dp"**

**android:src="@drawable/images"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.546"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.049"** />

<**ImageView**

**android:layout\_width="204dp"**

**android:layout\_height="88dp"**

**android:src="@drawable/b060f9872167e7ef111cc6ea9b004f03"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.498"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="@+id/imageView"**

**app:layout\_constraintVertical\_bias="0.861"** />

<**RadioButton**

**android:id="@+id/radioButton1"**

**android:layout\_width="118dp"**

**android:layout\_height="43dp"**

**android:background="@color/white"**

**android:text="Male"**

**android:textSize="30dp"**

**tools:layout\_editor\_absoluteX="73dp"**

**tools:layout\_editor\_absoluteY="491dp"** />

<**RadioButton**

**android:id="@+id/radioButton2"**

**android:layout\_width="134dp"**

**android:layout\_height="42dp"**

**android:background="@color/white"**

**android:text="Female"**

**android:textSize="30dp"**

**tools:layout\_editor\_absoluteX="290dp"**

**tools:layout\_editor\_absoluteY="492dp"** />

<**EditText**

**android:id="@+id/editTextTextPersonName4"**

**android:layout\_width="298dp"**

**android:layout\_height="60dp"**

**android:background="@color/white"**

**android:ems="10"**

**android:inputType="textPersonName"**

**android:text="Name"**

**android:textSize="20dp"**

**tools:layout\_editor\_absoluteX="63dp"**

**tools:layout\_editor\_absoluteY="187dp"** />

<**EditText**

**android:id="@+id/editTextTextPersonName5"**

**android:layout\_width="292dp"**

**android:layout\_height="59dp"**

**android:background="@color/white"**

**android:ems="10"**

**android:inputType="textPersonName"**

**android:text="Address"**

**android:textSize="20dp"**

**tools:layout\_editor\_absoluteX="69dp"**

**tools:layout\_editor\_absoluteY="290dp"** />

<**EditText**

**android:id="@+id/editTextTextPersonName6"**

**android:layout\_width="287dp"**

**android:layout\_height="52dp"**

**android:background="@color/white"**

**android:ems="10"**

**android:inputType="textPersonName"**

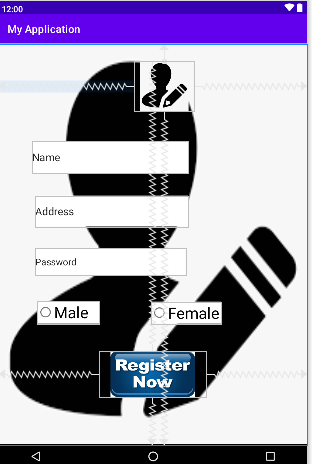
**android:text="Password"**

**tools:layout\_editor\_absoluteX="69dp"**

**tools:layout\_editor\_absoluteY="390dp"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

SCreenshot



1. 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"***?>*<**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"  
 tools:context=".MainActivity"**>  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="17dp"  
 android:layout\_marginLeft="17dp"  
 android:layout\_marginTop="17dp"  
 android:layout\_marginEnd="244dp"  
 android:layout\_marginRight="244dp"  
 android:layout\_marginBottom="486dp"  
 android:text="Student"  
 android:textSize="38dp"** />  
 <**ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="231dp"  
 android:layout\_height="174dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="-14dp"  
 android:layout\_marginRight="-14dp"  
 android:layout\_marginBottom="481dp"  
 app:srcCompat="@drawable/logo"** />  
 <**View  
 android:id="@+id/view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="4dp"  
 android:layout\_alignParentBottom="true"  
 android:background="#4444"  
 android:layout\_marginBottom="466dp"** />  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="117dp"  
 android:layout\_marginRight="117dp"  
 android:layout\_marginBottom="394dp"  
 android:text="STEBIN BABU"  
 android:textSize="30dp"  
 android:textStyle="bold"** />  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="64dp"  
 android:layout\_marginRight="64dp"  
 android:layout\_marginBottom="343dp"  
 android:text="MCA"  
 android:textSize="25dp"** />  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="127dp"  
 android:layout\_marginRight="127dp"  
 android:layout\_marginBottom="294dp"  
 android:text="Ph No: 9036915739"  
 android:textSize="20dp"** />  
 <**TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="10dp"  
 android:layout\_marginRight="10dp"  
 android:layout\_marginBottom="229dp"  
 android:text="MANJAMATTAM, KOTTAYAM, KERALA 686503 "  
 android:textSize="20dp"** />  
 <**TextView  
 android:id="@+id/textView6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="44dp"  
 android:layout\_marginRight="44dp"  
 android:layout\_marginBottom="189dp"  
 android:text="Email: stebinbabu@gmail.com"  
 android:textSize="20dp"** />  
</**RelativeLayout**>

**import** androidx.appcompat.app.AppCompatActivity;  
**import** android.os.Bundle;  
**public class** MainActivity **extends** AppCompatActivity {  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 }  
}

1. 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"***?>*

<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"**

**android:orientation="vertical"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="fill\_parent"**>

<**LinearLayout**

**android:layout\_width="fill\_parent"**

**android:layout\_height="99dp"**

**android:orientation="vertical" android:layout\_weight="0.67"**>

<**TextView**

**android:id="@+id/txtSolution"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="272dp"**

**android:layout\_weight="0.50"**

**android:gravity="right"**

**android:paddingTop="5sp"**

**android:paddingRight="10sp"**

**android:textSize="15pt"**

**android:textStyle="bold"** />

<**TextView**

**android:id="@+id/txtInput"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_weight="0.50"**

**android:gravity="right"**

**android:paddingRight="10sp"**

**android:paddingTop="5sp"**

**android:textSize="15pt"**

**android:textStyle="bold"** />

</**LinearLayout**>

<**LinearLayout**

**android:layout\_width="fill\_parent"**

**android:layout\_height="75dp"**

**android:orientation="horizontal"** >

<**Button**

**android:id="@+id/btnClear"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="5"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="Clear"** />

<**Button**

**android:id="@+id/btnBack"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight=".51"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="BS"** />

</**LinearLayout**>

<**LinearLayout**

**android:layout\_width="fill\_parent"**

**android:layout\_height="75dp"**

**android:orientation="horizontal"** >

<**Button**

**android:id="@+id/btnSeven"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="7"** />

<**Button**

**android:id="@+id/btnEight"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="8"** />

<**Button**

**android:id="@+id/btnNine"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="9"** />

<**Button**

**android:id="@+id/btnDivide"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1.15"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="/"** />

</**LinearLayout**>

<**LinearLayout**

**android:layout\_width="fill\_parent"**

**android:layout\_height="75dp"**

**android:orientation="horizontal"** >

<**Button**

**android:id="@+id/btnFour"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textSize="40sp"**

**android:textStyle="bold"**

**android:text="4"** />

<**Button**

**android:id="@+id/btnFive"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="5"** />

<**Button**

**android:id="@+id/btnSix"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="6"** />

<**Button**

**android:id="@+id/btnMultiply"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight=".98"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="x"** />

</**LinearLayout**>

<**LinearLayout**

**android:layout\_width="fill\_parent"**

**android:layout\_height="75dp"**

**android:orientation="horizontal"** >

<**Button**

**android:id="@+id/btnOne"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="1"** />

<**Button**

**android:id="@+id/btnTwo"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="2"** />

<**Button**

**android:id="@+id/btnThree"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="3"** />

<**Button**

**android:id="@+id/btnSubtract"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1.27"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="-"** />

</**LinearLayout**>

<**LinearLayout**

**android:layout\_width="fill\_parent"**

**android:layout\_height="75dp"**

**android:orientation="horizontal"** >

<**Button**

**android:id="@+id/btnDecimal"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight="1.22"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="."** />

<**Button**

**android:id="@+id/btnZero"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight=".98"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="0"** />

<**Button**

**android:id="@+id/btnEquals"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight=".95"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="="** />

<**Button**

**android:id="@+id/btnAdd"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="75dp"**

**android:layout\_weight=".93"**

**android:textStyle="bold"**

**android:textSize="40sp"**

**android:text="+"** />

</**LinearLayout**>

</**LinearLayout**>

SCreenshot:

