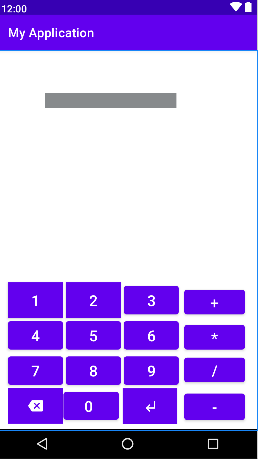
Android Lab Cycle 1

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

*<?***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**>

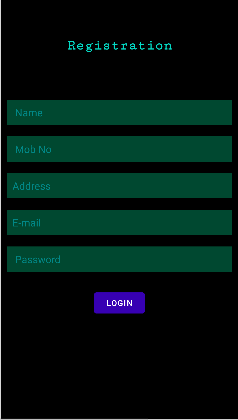
Output



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

*<?*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

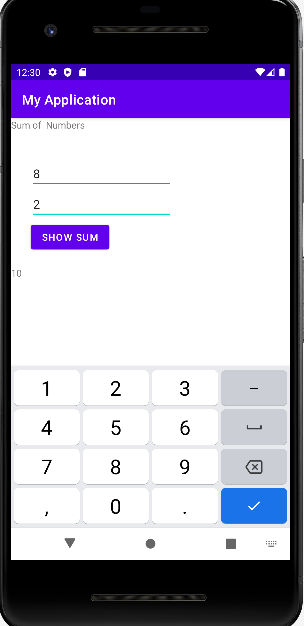


1. Sum of two numbers

Activity\_main.xml

*<?*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:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Sum of Numbers"  
 android:gravity="center"  
 android:id="@+id/textView" />  
  
 <EditText  
 android:id="@+id/num1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/textView"  
 android:layout\_alignParentStart="true"  
 android:layout\_marginStart="29dp"  
 android:layout\_marginTop="40dp"  
 android:ems="10"  
 android:hint="Enter First Number"  
 android:inputType="number" />  
  
 <Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/num1"  
 android:layout\_alignStart="@+id/num1"  
 android:layout\_marginTop="47dp"  
 android:text="Show Sum" />  
  
 <EditText  
 android:id="@+id/num2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/num1"  
 android:layout\_alignStart="@+id/num1"  
 android:ems="10"  
 android:hint="Enter Second Number"  
 android:inputType="number" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/showsum"  
 android:text="Answer"  
 android:layout\_below="@+id/btn1"  
 android:layout\_marginTop="19dp" />  
  
  
  
</RelativeLayout>

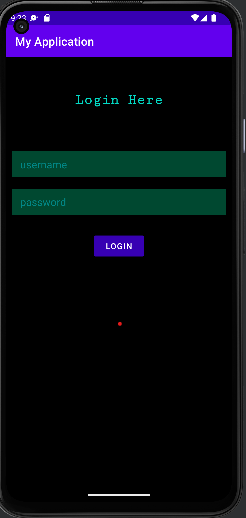
package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText num1;  
 EditText num2;  
 TextView answer;  
 Button btn;  
 double num3,num4,sum;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 num1=(EditText)findViewById(R.id.*num1*);  
 num2=(EditText) findViewById(R.id.*num2*);  
 answer=(TextView) findViewById(R.id.*showsum*);  
 btn=(Button) findViewById(R.id.*btn1*);  
 btn.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View view) {  
 String value1 = num1.getText().toString();  
 String value2 = num2.getText().toString();  
 int a = Integer.*parseInt*(value1);  
 int b = Integer.*parseInt*(value2);  
 int sum = a + b;  
 answer.setText(Integer.*toString*(sum));  
 Toast.*makeText*(getApplicationContext(),  
 String.*valueOf*(sum), Toast.*LENGTH\_LONG*).show();  
 }  
 });  
  
 }  
}



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

<?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:**

****

1. Develop your Profile page using .xml file.
2. <?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="RITTYMARIYA K R"  
    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="rittymariyakr@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:**

