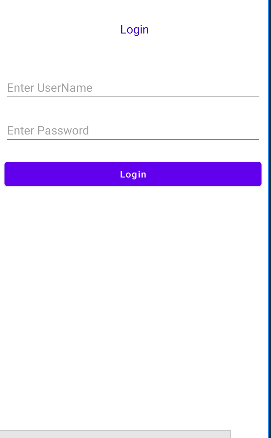
Android Lab Cycle 1

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

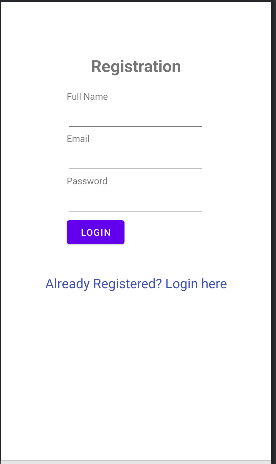
<RelativeLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <!--text view for heading-->  
 <TextView  
 android:id="@+id/idTVHeader"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:gravity="center\_horizontal"  
 android:padding="5dp"  
 android:text=" Register Form"  
 android:textAlignment="center"  
 android:textColor="@color/purple\_700"  
 android:textSize="18sp" />  
  
 <!--edit text for user name-->  
 <EditText  
 android:id="@+id/idEdtUserName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/idTVHeader"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginEnd="10dp"  
 android:hint="Enter UserName"  
 android:inputType="textEmailAddress" />  
  
 <!--edit text for user password-->  
 <EditText  
 android:id="@+id/idEdtPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/idEdtUserName"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginEnd="10dp"  
 android:hint="Enter Password"  
 android:inputType="textPassword" />  
  
 <!--button to register our new user-->  
 <Button  
 android:id="@+id/idBtnRegister"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/idEdtPassword"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginEnd="10dp"  
 android:text="Register User"  
 android:textAllCaps="false" />  
  
</RelativeLayout>

Out put:



1. 2. Develop an application for a simple registration page using .xml file.
2. 2. <?xml version="1.0" encoding="utf-8"?>  
   <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:orientation="vertical" android:layout\_width="match\_parent"  
    android:layout\_height="match\_parent">  
    <TextView  
    android:id="@+id/loginscrn"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:layout\_marginTop="80dp"  
    android:text="Registration"  
    android:textSize="25dp"  
    android:textStyle="bold"  
    android:layout\_gravity="center"/>  
    <TextView  
    android:id="@+id/fstTxt"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:layout\_marginLeft="100dp"  
    android:layout\_marginTop="20dp"  
    android:text="Full Name"/>  
    <EditText  
    android:id="@+id/txtName"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:layout\_marginLeft="100dp"  
    android:ems="10"/>  
    <TextView  
    android:id="@+id/secTxt"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:text="Email"  
    android:layout\_marginLeft="100dp" />  
    <EditText  
    android:id="@+id/txtEmail"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:layout\_marginLeft="100dp"  
    android:ems="10" />  
    <TextView  
    android:id="@+id/thirdTxt"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:text="Password"  
    android:layout\_marginLeft="100dp" />  
    <EditText  
    android:id="@+id/txtPwd"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:layout\_marginLeft="100dp"  
    android:inputType="textPassword"  
    android:ems="10" />  
    <Button  
    android:id="@+id/btnLogin"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:layout\_marginLeft="100dp"  
    android:text="Login" />  
    <TextView android:id="@+id/lnkLogin"  
    android:layout\_width="match\_parent"  
    android:layout\_height="wrap\_content"  
    android:layout\_marginTop="40dp"  
    android:text="Already Registered? Login here"  
    android:gravity="center"  
    android:textSize="20dp"  
    android:textColor="#3F51B5"  
    android:onClick="test"/>  
   </LinearLayout>

Out put:



3.Develop your Profile page using .xml file.

4.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"  
 android:background="#8BC34A"  
 android:backgroundTint="@android:color/darker\_gray"  
 tools:context=".MainActivity">  
  
 <!-- Text View to display our basic heading of "calculator"-->  
 <TextView  
 android:layout\_width="194dp"  
 android:layout\_height="43dp"  
 android:layout\_marginStart="114dp"  
 android:layout\_marginLeft="114dp"  
 android:layout\_marginTop="58dp"  
 android:layout\_marginEnd="103dp"  
 android:layout\_marginRight="103dp"  
 android:layout\_marginBottom="502dp"  
 android:scrollbarSize="30dp"  
 android:text=" Calculator"  
 android:textAppearance="@style/TextAppearance.AppCompat.Body1"  
 android:textSize="30dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- Edit Text View to input the values -->  
 <EditText  
 android:id="@+id/num1"  
 android:layout\_width="364dp"  
 android:layout\_height="28dp"  
 android:layout\_marginStart="72dp"  
 android:layout\_marginTop="70dp"  
 android:layout\_marginEnd="71dp"  
 android:layout\_marginBottom="416dp"  
 android:background="@android:color/white"  
 android:ems="10"  
 android:onClick="clearTextNum1"  
 android:inputType="number"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- Edit Text View to input 2nd value-->  
 <EditText  
 android:id="@+id/num2"  
 android:layout\_width="363dp"  
 android:layout\_height="30dp"  
 android:layout\_marginStart="72dp"  
 android:layout\_marginTop="112dp"  
 android:layout\_marginEnd="71dp"  
 android:layout\_marginBottom="374dp"  
 android:background="@android:color/white"  
 android:ems="10"  
 android:onClick="clearTextNum2"  
 android:inputType="number"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- Text View to display result -->  
 <TextView  
 android:id="@+id/result"  
 android:layout\_width="356dp"  
 android:layout\_height="71dp"  
 android:layout\_marginStart="41dp"  
 android:layout\_marginTop="151dp"  
 android:layout\_marginEnd="48dp"  
 android:layout\_marginBottom="287dp"  
 android:background="@android:color/white"  
 android:text="result"  
 android:textColorLink="#673AB7"  
 android:textSize="25sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- A button to perform 'sum' operation -->  
 <Button  
 android:id="@+id/sum"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="292dp"  
 android:layout\_marginEnd="307dp"  
 android:layout\_marginBottom="263dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doSum"  
 android:text="+"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- A button to perform subtraction operation. -->  
  
 <!-- A button to perform division. -->  
  
 <Button  
 android:id="@+id/sub"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="210dp"  
 android:layout\_marginTop="292dp"  
 android:layout\_marginEnd="113dp"  
 android:layout\_marginBottom="263dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doSub"  
 android:text="-"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.507" />  
  
 <Button  
 android:id="@+id/div"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="307dp"  
 android:layout\_marginTop="292dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginBottom="263dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doDiv"  
 android:text="/"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- A button to perform multiplication. -->  
 <Button  
 android:id="@+id/mul"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="16dp"  
 android:layout\_marginTop="356dp"  
 android:layout\_marginEnd="307dp"  
 android:layout\_marginBottom="199dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doMul"  
 android:text="x"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <!-- A button to perform a modulus function. -->  
  
 <!-- A button to perform a power function. -->  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="103dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="113dp"  
 android:layout\_marginTop="356dp"  
 android:layout\_marginEnd="206dp"  
 android:layout\_marginBottom="199dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doMod"  
 android:text="%(mod)"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.515" />  
  
 <Button  
 android:id="@+id/pow"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="113dp"  
 android:layout\_marginTop="292dp"  
 android:layout\_marginEnd="210dp"  
 android:layout\_marginBottom="263dp"  
 android:backgroundTint="@android:color/holo\_red\_light"  
 android:onClick="doPow"  
 android:text="n1^n2"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.507" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Out put:

