

Android Lab Cycle 1

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

Activity_main.xml

```
<?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=".MainActivity2">

    <Button
        android:id="@+id/button31"
        android:layout_width="100dp"
        android:layout_height="77dp"
        android:text="/"
        tools:layout_editor_absoluteX="306dp"
        tools:layout_editor_absoluteY="357dp" />

    <Button
        android:id="@+id/button30"
        android:layout_width="100dp"
        android:layout_height="77dp"
        android:text="9"
        tools:layout_editor_absoluteX="206dp"
        tools:layout_editor_absoluteY="357dp" />

    <Button
        android:id="@+id/button29"
        android:layout_width="100dp"
        android:layout_height="77dp"
        android:text="8"
        tools:layout_editor_absoluteX="108dp"
        tools:layout_editor_absoluteY="357dp" />

    <Button
        android:id="@+id/button28"
        android:layout_width="100dp"
        android:layout_height="77dp"
        android:text="7"
        tools:layout_editor_absoluteX="8dp"
        tools:layout_editor_absoluteY="357dp" />

    <Button
        android:id="@+id/button27"
        android:layout_width="100dp"
        android:layout_height="77dp"
        android:text="*"
        tools:layout_editor_absoluteX="306dp"
        tools:layout_editor_absoluteY="434dp" />
```

```
<Button
    android:id="@+id/button26"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="6"
    tools:layout_editor_absoluteX="206dp"
    tools:layout_editor_absoluteY="434dp" />

<Button
    android:id="@+id/button25"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="5"
    tools:layout_editor_absoluteX="106dp"
    tools:layout_editor_absoluteY="434dp" />

<Button
    android:id="@+id/button24"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="4"
    tools:layout_editor_absoluteX="8dp"
    tools:layout_editor_absoluteY="434dp" />

<Button
    android:id="@+id/button23"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="_"
    tools:layout_editor_absoluteX="306dp"
    tools:layout_editor_absoluteY="511dp" />

<Button
    android:id="@+id/button22"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="3"
    tools:layout_editor_absoluteX="206dp"
    tools:layout_editor_absoluteY="511dp" />

<Button
    android:id="@+id/button21"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="2"
    tools:layout_editor_absoluteX="106dp"
    tools:layout_editor_absoluteY="511dp" />

<Button
    android:id="@+id/button20"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="1"
    tools:layout_editor_absoluteX="6dp"
    tools:layout_editor_absoluteY="511dp" />

<Button
    android:id="@+id/button19"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="+" />
```

```
tools:layout_editor_absoluteX="310dp"
tools:layout_editor_absoluteY="588dp" />

<Button
    android:id="@+id/button18"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="c"
    tools:layout_editor_absoluteX="208dp"
    tools:layout_editor_absoluteY="588dp" />

<Button
    android:id="@+id/button"
    android:layout_width="423dp"
    android:layout_height="66dp"
    android:backgroundTint="#5C474141"
    android:text=""
    tools:layout_editor_absoluteX="-6dp"
    tools:layout_editor_absoluteY="665dp" />

<Button
    android:id="@+id/button2"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="."
    tools:layout_editor_absoluteX="6dp"
    tools:layout_editor_absoluteY="588dp" />

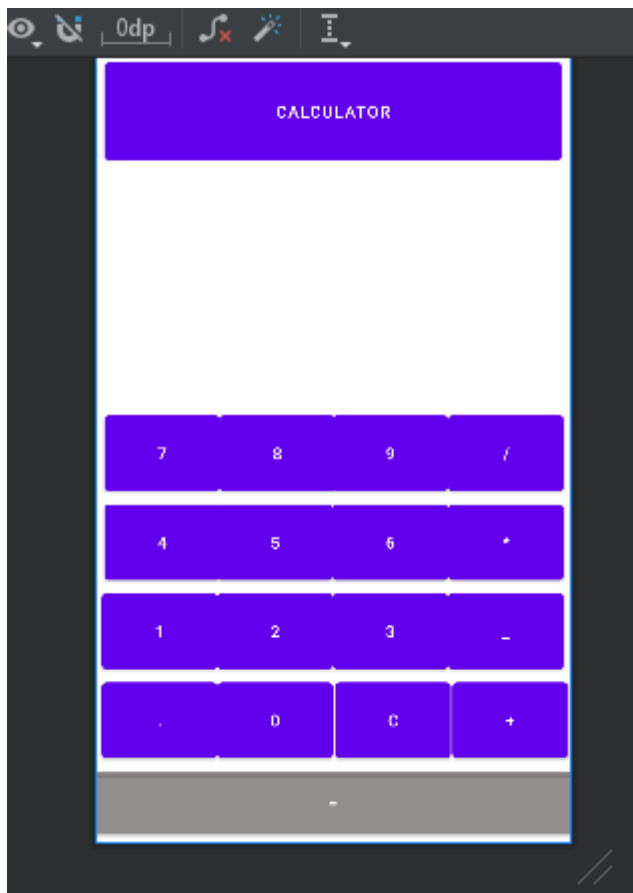
<Button
    android:id="@+id/button17"
    android:layout_width="100dp"
    android:layout_height="77dp"
    android:text="0"
    tools:layout_editor_absoluteX="106dp"
    tools:layout_editor_absoluteY="588dp" />

<TextView
    android:id="@+id/textView"
    android:layout_width="404dp"
    android:layout_height="192dp"
    android:text=""
    tools:layout_editor_absoluteX="6dp"
    tools:layout_editor_absoluteY="165dp" />

<Button
    android:id="@+id/button32"
    android:layout_width="396dp"
    android:layout_height="96dp"
    android:text="CALCULATOR"
    tools:layout_editor_absoluteX="8dp"
    tools:layout_editor_absoluteY="52dp" />

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

Output



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

Activity_main.xml

```
<?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:id="@+id/editTextTextPersonName6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="confirm password"
        android:textColor="#8E8888"
        tools:layout_editor_absoluteX="167dp"
        tools:layout_editor_absoluteY="506dp" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="password"
    android:textColor="#8E8888"
    tools:layout_editor_absoluteX="167dp"
    tools:layout_editor_absoluteY="440dp" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="email id"
    android:textColor="#8E8888"
    tools:layout_editor_absoluteX="168dp"
    tools:layout_editor_absoluteY="307dp" />
```

```
<TextView
    android:id="@+id/textView8"
    android:layout_width="91dp"
    android:layout_height="29dp"
    android:text=" PASSWORD"
    android:textColor="#131313"
    android:textSize="16sp"
    tools:layout_editor_absoluteX="33dp"
    tools:layout_editor_absoluteY="506dp" />
```

```
<TextView
    android:id="@+id/textView7"
    android:layout_width="91dp"
    android:layout_height="29dp"
    android:text="PASSWORD "
    android:textColor="#040303"
    android:textSize="16sp"
    tools:layout_editor_absoluteX="33dp"
    tools:layout_editor_absoluteY="456dp" />
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="91dp"
    android:layout_height="29dp"
    android:text="GENDER :"
    android:textColor="#0C0C0C"
    android:textSize="20sp"
    tools:layout_editor_absoluteX="33dp"
    tools:layout_editor_absoluteY="389dp" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="91dp"
    android:layout_height="29dp"
    android:text="EMAIL :"
    android:textColor="#000000"
    android:textSize="20sp"
    tools:layout_editor_absoluteX="33dp"
    tools:layout_editor_absoluteY="316dp" />
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SIGN UP!"
    android:textColor="#7CB342"
    android:textSize="34sp"
    tools:layout_editor_absoluteX="141dp"
    tools:layout_editor_absoluteY="97dp" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="91dp"
    android:layout_height="29dp"
    android:text="NAME :"
    android:textColor="#0B0A0A"
    android:textSize="20sp"
    tools:layout_editor_absoluteX="33dp"
    tools:layout_editor_absoluteY="198dp" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="91dp"
    android:layout_height="29dp"
    android:text="PHONE :"
    android:textColor="#040404"
    android:textSize="20sp"
    tools:layout_editor_absoluteX="33dp"
    tools:layout_editor_absoluteY="251dp" />

<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="name"
    android:textColor="#8E8888"
    tools:layout_editor_absoluteX="167dp"
    tools:layout_editor_absoluteY="190dp" />

<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="phone number"
    android:textColor="#8E8888"
    tools:layout_editor_absoluteX="168dp"
    tools:layout_editor_absoluteY="251dp" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:backgroundTint="#9FDD5D"
    android:text="SUBMIT"
    android:textColor="#DEE6D5"
    tools:layout_editor_absoluteX="160dp"
```

```

tools:layout_editor_absoluteY="643dp" />

<RadioButton
    android:id="@+id/radioButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="MALE"
    android:textColor="#131313"
    android:textSize="16sp"
    tools:layout_editor_absoluteX="160dp"
    tools:layout_editor_absoluteY="382dp" />

<RadioButton
    android:id="@+id/radioButton2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="FEMALE"
    android:textColor="#070707"
    android:textSize="16sp"
    tools:layout_editor_absoluteX="269dp"
    tools:layout_editor_absoluteY="382dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Output

The screenshot displays a mobile application interface for signing up. At the top, there's a green header with the text "SIGN UP!". Below this, the form consists of several input fields: "NAME" with a placeholder "name", "PHONE" with a placeholder "phone number", "EMAIL" with a placeholder "email id", "GENDER" with two radio button options "MALE" and "FEMALE", "PASSWORD" with a placeholder "password", and another "PASSWORD" field with a placeholder "confirm password". At the bottom of the form is a green button labeled "SUBMIT". The entire form is set against a white background with a subtle shadow, and the app is running on a device with a dark status bar at the top.

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

Activity_main.xml

```
<?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:id="@+id/editTextTextPersonName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="user name"
        tools:layout_editor_absoluteX="100dp"
        tools:layout_editor_absoluteY="285dp" />

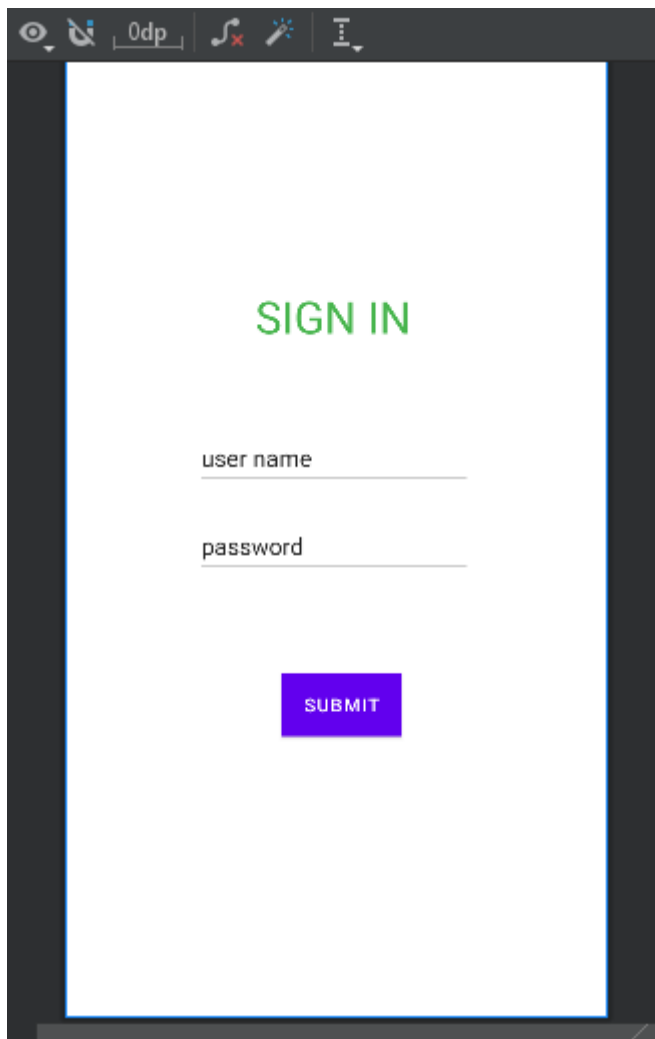
    <EditText
        android:id="@+id/editTextTextPersonName2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="password"
        tools:layout_editor_absoluteX="100dp"
        tools:layout_editor_absoluteY="352dp" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#A663B8"
        android:text="SUBMIT"
        tools:layout_editor_absoluteX="165dp"
        tools:layout_editor_absoluteY="471dp" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="190dp"
        android:layout_height="69dp"
        android:text="SIGN IN"
        android:textColor="#F842B348"
        android:textSize="34sp"
        tools:layout_editor_absoluteX="145dp"
        tools:layout_editor_absoluteY="177dp" />

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


Output



4. Develop your Profile page using .xml file.

Activity_main.xml

```
<?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">

    <ImageButton
        android:id="@+id/imageButton"
        android:layout_width="109dp"
        android:layout_height="87dp"
        tools:layout_editor_absoluteX="149dp"
        tools:layout_editor_absoluteY="115dp"
```

```
tools:srcCompat="@tools:sample/avatars" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="149dp"
    android:layout_height="47dp"
    android:text="  PROFILE"
    android:textColor="#E40F0F"
    android:textSize="24sp"
    tools:layout_editor_absoluteX="149dp"
    tools:layout_editor_absoluteY="53dp" />

<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="name"
    android:textColor="#63403D3D"
    tools:layout_editor_absoluteX="92dp"
    tools:layout_editor_absoluteY="262dp" />

<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="email "
    android:textColor="#63403D3D"
    tools:layout_editor_absoluteX="92dp"
    tools:layout_editor_absoluteY="328dp" />

<EditText
    android:id="@+id/editTextTextPersonName6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="phone"
    android:textColor="#63403D3D"
    tools:layout_editor_absoluteX="88dp"
    tools:layout_editor_absoluteY="399dp" />

<EditText
    android:id="@+id/editTextTextPersonName4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="gender"
    android:textColor="#63403D3D"
    tools:layout_editor_absoluteX="92dp"
    tools:layout_editor_absoluteY="472dp" />

<EditText
    android:id="@+id/editTextTextPersonName5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
```

```

        android:inputType="textPersonName"
        android:text="password"
        android:textColor="#63403D3D"
        tools:layout_editor_absoluteX="88dp"
        tools:layout_editor_absoluteY="545dp" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SAVE"
    tools:layout_editor_absoluteX="164dp"
    tools:layout_editor_absoluteY="637dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Output

