

X. Exercise

1.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        android:gravity="center"
        android:layout_gravity="center"
        android:layout_marginTop="350dp"
        android:textColor="#000000"
        android:textSize="30dp"
        android:textStyle="italic"/>
</LinearLayout>
```

Output



2.

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout 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="wrap_content"
    android:layout_marginTop="200dp"
    tools:context=".MainActivity">
    <TableRow
        android:background="#F52887"
```

Mobile Application Development

```
android:padding="5dp" >
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=" StudentName"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Subject1"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Subject2"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Subject3"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
</TableRow>
```

```
<TableRow
    android:padding="5dp" >
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Ajay"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

Practical No: _____

Mobile Application Development

```
android:layout_weight="1"
android:text="60"
android:layout_marginLeft="10dp"
android:textSize="15dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="55"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="69"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
</TableRow>
```

```
</TableLayout>
```

Output



The screenshot shows a mobile application interface with a table. The table has four columns: StudentName, Subject1, Subject2, and Subject3. The first row of data shows the student 'Ajay' with scores of 60, 55, and 69 respectively. The table is displayed on a light gray background.

StudentName	Subject1	Subject2	Subject3
Ajay	60	55	69

Practical No: _____

Practical No: 5

X. Exercise

1.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    android:background="#CCEEFF"
    tools:context=".MainActivity">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Name :"
    android:textSize="30dp"
    android:layout_marginTop="40dp"
    android:layout_marginLeft="10dp"/>
```

```
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Your Name"
    android:layout_marginTop="10dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Age :"
    android:textSize="30dp"
    android:layout_marginTop="40dp"
    android:layout_marginLeft="10dp"/>
```

```
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Your Age"
    android:layout_marginTop="10dp"/>
```

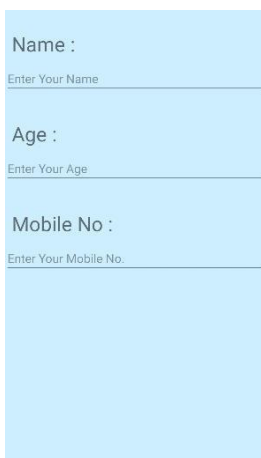
```
<TextView
    android:layout_width="wrap_content"
```

Mobile Application Development

```
android:layout_height="wrap_content"
android:text="Mobile No : "
android:textSize="30dp"
android:layout_marginTop="40dp"
android:layout_marginLeft="10dp"/>
```

```
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Your Mobile No. "
    android:layout_marginTop="10dp"/>
</LinearLayout>
```

Output

A screenshot of a mobile application interface showing a form with three input fields. The first field is labeled 'Name :' with a hint 'Enter Your Name'. The second field is labeled 'Age :' with a hint 'Enter Your Age'. The third field is labeled 'Mobile No :' with a hint 'Enter Your Mobile No.'. The fields are stacked vertically and have a light blue background.

2.

```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout 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="#98AFC7"
    tools:context=".MainActivity">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Name :"
    android:textSize="30dp"
    android:layout_x="1dp"
    android:layout_y="71dp"
    android:layout_marginTop="50dp"
    android:layout_marginLeft="10dp"
    android:textColor="#000000"/>
```

```
<EditText
    android:layout_width="match_parent"
```

Practical No: _____

Mobile Application Development

```
android:layout_height="wrap_content"
android:hint="Enter Your Name"
android:layout_marginTop="10dp"
android:layout_x="2dp"
android:layout_y="101dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Age :"
    android:textSize="30dp"
    android:layout_marginTop="40dp"
    android:layout_marginLeft="10dp"
    android:layout_x="1dp"
    android:layout_y="146dp"
    android:textColor="#000000"/>
```

```
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Your Age"
    android:layout_marginTop="10dp"
    android:layout_x="1dp"
    android:layout_y="177dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Mobile No : "
    android:textSize="30dp"
    android:layout_marginTop="40dp"
    android:layout_marginLeft="10dp"
    android:layout_x="2dp"
    android:layout_y="227dp"
    android:textColor="#000000"/>
```

```
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Your Mobile No. "
    android:layout_marginTop="10dp"
    android:layout_x="2dp"
    android:layout_y="260dp"/>
```

```
</AbsoluteLayout>
```

Output

Practical No: _____

Mobile Application Development

Name :

Enter Your Name

Age :

Enter Your Age

Mobile No :

Enter Your Mobile No.

Practical No: _____

Practical No: 6

X. Exercise

1.

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout 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:layout_marginTop="200dp"
    tools:context=".MainActivity">
    <TableRow
        android:background="#F52887"
        android:padding="5dp">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Name"
            android:layout_marginLeft="10dp"
            android:textSize="15dp"/>

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Age"
            android:layout_marginLeft="10dp"
            android:textSize="15dp"/>

        <TextView
```


Mobile Application Development

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="Mobile No."
android:layout_marginLeft="10dp"
android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Address"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
</TableRow>
```

```
<TableRow
```

```
    android:padding="5dp">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Ajay"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="18"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="9854439274"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Nashik"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
</TableRow>
```

Practical No: _____

Mobile Application Development

<TableRow

android:padding="5dp">

<TextView

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="Jack"
android:layout_marginLeft="10dp"
android:textSize="15dp"/>

<TextView

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="20"
android:layout_marginLeft="10dp"
android:textSize="15dp"/>

<TextView

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="8843527130"
android:layout_marginLeft="10dp"
android:textSize="15dp" />

<TextView

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="Mumbai"
android:layout_marginLeft="10dp"
android:textSize="15dp" />

</TableRow>

<TableRow

android:padding="5dp" >

<TextView

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="Sameer"
android:layout_marginLeft="10dp"
android:textSize="15dp"/>

<TextView

android:layout_width="wrap_content"

Practical No: _____

Mobile Application Development

```
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="19"
android:layout_marginLeft="10dp"
android:textSize="15dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="9912674903"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Pune"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
</TableRow>
```

```
<TableRow
```

```
    android:padding="5dp">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Nikita"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="18"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="8723649218"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

Practical No: _____

Mobile Application Development

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Shimla"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
</TableRow>
<TableRow
```

```
    android:padding="5dp">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Jay"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="19"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"
/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="9363271917"
    android:layout_marginLeft="10dp"
    android:textSize="15dp"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Kolhapur"
    android:layout_marginLeft="10dp"
    android:textSize="15dp" />
```

```
</TableRow>
```

```
</TableLayout>
```

Name	Age	Mobile No	Address
Alfya	18	9854439274	Nashik
Afreen	20	8843527130	Mumbai
Navishta	19	9912674903	Pune
Nikita	18	8723649218	Shimla
Vaishali	19	9363271917	Kolhapur

Output

Practical No: _____

Mobile Application Development

2.

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout 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:orientation="vertical"
    android:background="#FA8072"
    tools:context=".MainActivity">
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="#00FFFF"
    android:text="DataTypes in Object Oriented Programming"
    android:gravity="center"
    android:layout_marginTop="100dp"
    android:textStyle="italic"
    android:textSize="20dp"
    android:textColor="#000000"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Integer"
    android:gravity="center"
    android:background="#EE82EE"
    android:layout_marginTop="200dp"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:textColor="#000000"
    android:textSize="20dp"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Character"
    android:background="#FF69B4"
    android:textColor="#000000"
    android:gravity="center"
```

Mobile Application Development

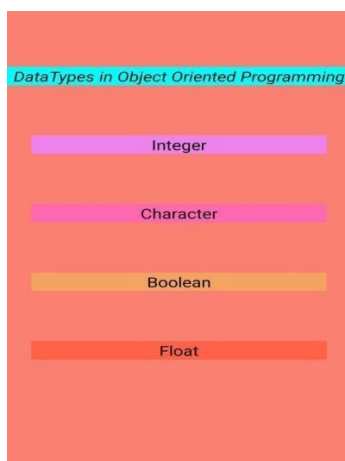
```
android:layout_marginTop="300dp"  
android:layout_marginLeft="30dp"  
android:layout_marginRight="30dp"  
android:textSize="20dp" />
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Boolean"  
    android:background="#F4A460"  
    android:textColor="#000000"  
    android:gravity="center"  
    android:layout_marginTop="400dp"  
    android:layout_marginLeft="30dp"  
    android:layout_marginRight="30dp"  
    android:textSize="20dp"/>
```

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:text="Float"  
    android:textColor="#000000"  
    android:gravity="center"  
    android:layout_marginTop="500dp"  
    android:layout_marginLeft="30dp"  
    android:layout_marginRight="30dp"  
    android:textSize="20dp"  
    android:background="#FF6347"/>
```

</FrameLayout>

Output



Practical No: _____

Mobile Application Development

Practical No: _____

Mobile Application Development

X. Exercise

Practical No: 7

```
1. <?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="#FF7F50"
    app:layout_behavior="@string/appbar_scrolling_view_behavior"
    tools:context=".MainActivity"
    tools:showIn="@layout/activity_main">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/text1"
        android:layout_centerHorizontal="true"
        android:layout_centerInParent="false"
        android:text="LOGIN"
        android:layout_marginTop="14dp"
        android:textAppearance="?android:attr/textAppearanceLarge"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/textView1"
        android:layout_below="@id/text1"
        android:layout_marginTop="70dp"
        android:text="Username"
        android:textAppearance="?android:attr/textAppearanceLarge"/>

    <EditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/t2editText1"
        android:layout_alignParentRight="true"
        android:layout_alignTop="@+id/textView1"
        android:layout_toRightOf="@+id/textView1"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/textView2"
        android:layout_below="@id/textView1"
        android:layout_marginTop="60dp"
        android:text="Password"
        android:textAppearance="?android:attr/textAppearanceLarge"/>
```

Practical No: _____

Mobile Application Development

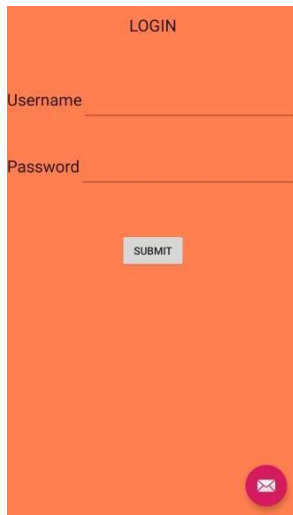
```
<EditText
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/editText2"
    android:layout_alignParentRight="true"
    android:layout_alignTop="@+id/textView2"
    android:layout_toRightOf="@id/textView2"
    android:inputType="textPassword"/>
```

```
<Button
    android:layout_width="wrap_content"
```

Mobile Application Development

```
android:layout_height="wrap_content"
android:id="@+id/btnSubmit"
android:layout_alignParentLeft="false"
android:layout_below="@id/editText2"
android:layout_centerInParent="true"
android:layout_marginTop="60dp"
android:text="Submit"/>
```

Output



```
2. <?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="#FF7F50"
    app:layout_behavior="@string/appbar_scrolling_view_behavior"
    tools:context=".MainActivity"
    tools:showIn="@layout/activity_main">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/text1"
        android:layout_centerHorizontal="true"
        android:layout_centerInParent="false"
        android:text="LOGIN"
        android:layout_marginTop="14dp"
        android:textAppearance="?android:attr/textAppearanceLarge"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/textView1"
        android:layout_below="@id/text1"
        android:layout_marginTop="70dp"
```

Practical No: _____

Mobile Application Development

```
android:text="Username"  
android:textAppearance="?android:attr/textAppearanceLarge"/>
```

```
<EditText  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/t2editText1"  
    android:layout_alignParentRight="true"  
    android:layout_alignTop="@+id/textView1"  
    android:layout_toRightOf="@+id/textView1"/>
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/textView2"  
    android:layout_below="@id/textView1"  
    android:layout_marginTop="60dp"  
    android:text="Password"  
    android:textAppearance="?android:attr/textAppearanceLarge"/>
```

```
<EditText  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/editText2"  
    android:layout_alignParentRight="true"  
    android:layout_alignTop="@+id/textView2"  
    android:layout_toRightOf="@id/textView2"  
    android:inputType="textPassword"/>
```

```
<Button  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/btnSubmit"  
    android:layout_alignParentLeft="false"  
    android:layout_below="@id/editText2"  
    android:layout_centerInParent="true"  
    android:layout_marginTop="60dp"  
    android:text="Submit"/>
```

Output

Practical No: _____

Mobile Application Development

Student Information

Name

Email

Password

Enter Age

SUBMIT

Practical No: _____

Practical No: 8

X. Exercise

```
1. <?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:background="#E5E4E2"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

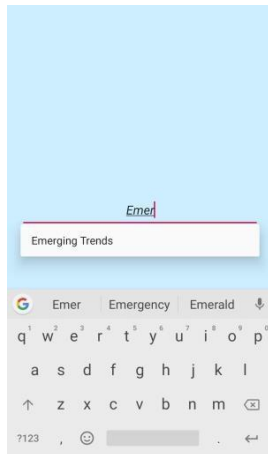
    <TextView
        android:id="@+id/text1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Yahoo!"
        android:textSize="60dp"
        android:textColor="#400090"
        android:gravity="center"
        android:layout_marginTop="100dp"
        android:layout_marginLeft="100dp"
        android:textStyle="italic" />

    <AutoCompleteTextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="300dp"
        android:hint="Enter Text"
        android:padding="15dp"
        android:textColorHint="#000000"
        android:textStyle="italic"
        android:id="@+id/au1"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp" />

</RelativeLayout>
```

Output

Mobile Application Development



```
2. <?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="#CCEEFF"
    tools:context=".MainActivity">

    <AutoCompleteTextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="300dp"
        android:hint="Enter Text"
        android:padding="15dp"
        android:textColorHint="#000000"
        android:textStyle="italic"
        android:id="@+id/au1"
        android:gravity="center"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"/>

</RelativeLayout>
```

Output



Practical No: _____

Practical No: 9

```
1. <?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity">

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="150dp"
        android:orientation="horizontal">

        <ToggleButton
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/tb1"
            android:layout_gravity="center_horizontal"
            android:checked="false"
            android:drawablePadding="20dp"
            android:textColor="#000"/>

        <ToggleButton
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/tb2"
            android:layout_gravity="center_horizontal"
            android:layout_marginLeft="50dp"
            android:checked="true"
            android:drawablePadding="20dp"
            android:textColor="#000" />

    </LinearLayout>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/b1"
        android:layout_gravity="center"
        android:background="#0f0"
        android:padding="10dp"
```

Practical No: _____

Mobile Application Development

```
android:text="Submit"
android:textColor="#fff"
android:textSize="20sp"
android:textStyle="bold"
android:layout_marginTop="150dp"/>
```

</LinearLayout>

Output



2. `<?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:id="@+id/relative1"`
`android:layout_gravity="center"`
`android:layout_width="match_parent"`
`android:layout_height="match_parent"`
`tools:context=".MainActivity">`
- `<EditText`
`android:layout_width="match_parent"`
`android:layout_height="wrap_content"`
`android:layout_marginTop="100dp"`
`android:layout_marginLeft="40dp"`
`android:layout_marginRight="40dp"`
`android:id="@+id/edt1" />`
- `<Button`
`android:layout_width="wrap_content"`
`android:layout_height="wrap_content"`
`android:id="@+id/button1"`
`style="?android:attr/buttonStyleSmall"`
`android:layout_alignEnd="@+id/button4"`
`android:layout_alignRight="@+id/button4"`
`android:layout_below="@+id/edt1"`
`android:layout_marginTop="94dp"`
`android:text="1"/>`

Practical No: _____

Mobile Application Development

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button2"
    style="?android:attr/buttonStyleSmall"
    android:layout_alignTop="@+id/button1"
    android:layout_toLeftOf="@+id/button3"
    android:layout_toStartOf="@+id/button3"
    android:text="2" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button3"
    style="?android:attr/buttonStyleSmall"
    android:layout_alignTop="@+id/button2"
    android:layout_centerHorizontal="true"
    android:text="3"/>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button4"
    style="?android:attr/buttonStyleSmall"
    android:layout_below="@id/button1"
    android:layout_toLeftOf="@+id/button2"
    android:text="4"/>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button5"
    style="?android:attr/buttonStyleSmall"
    android:layout_alignBottom="@+id/button4"
    android:layout_alignStart="@id/button2"
    android:layout_alignLeft="@+id/button2"
    android:text="5"/>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button6"
    style="?android:attr/buttonStyleSmall"
    android:layout_alignLeft="@+id/button3"
    android:layout_alignStart="@+id/button3"
    android:layout_below="@id/button3"
    android:text="6" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

Practical No: _____

Mobile Application Development

```
android:id="@+id/button7"
style="?android:attr/buttonStyleSmall"
android:layout_toLeftOf="@+id/button2"
android:layout_below="@+id/button4"
android:text="7" />
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/button8"
style="?android:attr/buttonStyleSmall"
android:layout_alignLeft="@+id/button5"
android:layout_alignStart="@+id/button5"
android:layout_below="@+id/button5"
android:text="8" />
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/button9"
style="?android:attr/buttonStyleSmall"
android:layout_alignStart="@+id/button6"
android:layout_alignLeft="@+id/button6"
android:layout_below="@+id/button6"
android:text="9"/>
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/buttonadd"
style="?android:attr/buttonStyleSmall"
android:layout_alignEnd="@+id/edt1"
android:layout_alignRight="@+id/edt1"
android:layout_alignTop="@+id/button3"
android:layout_marginLeft="46dp"
android:layout_marginStart="46dp"
android:layout_toRightOf="@+id/button3"
android:text="+" />
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/buttonsub"
style="?android:attr/buttonStyleSmall"
android:layout_alignEnd="@+id/buttonadd"
android:layout_alignLeft="@+id/buttonadd"
android:layout_alignRight="@+id/buttonadd"
android:layout_alignStart="@+id/buttonadd"
android:layout_below="@+id/buttonadd"
android:text="-"/>
```

<Button

Practical No: _____

Mobile Application Development

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/buttonmul"
style="?android:attr/buttonStyleSmall"
android:layout_alignLeft="@+id/buttonsub"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignStart="@+id/buttonsub"
android:layout_marginRight="40dp"
android:text="*"
android:layout_below="@+id/buttonsub" />
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/button10"
style="?android:attr/buttonStyleSmall"
android:layout_below="@id/button7"
android:layout_toLeftOf="@+id/button2"
android:text="." />
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/button0"
style="?android:attr/buttonStyleSmall"
android:layout_alignLeft="@id/button8"
android:layout_alignStart="@id/button8"
android:layout_below="@+id/button8"
android:text="0" />
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/buttonC"
style="?android:attr/buttonStyleSmall"
android:layout_alignLeft="@id/button9"
android:layout_alignStart="@id/button9"
android:layout_below="@+id/button9"
android:text="C" />
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/buttondiv"
style="?android:attr/buttonStyleSmall"
android:layout_alignEnd="@id/buttonmul"
android:layout_alignRight="@id/buttonmul"
android:layout_alignLeft="@id/buttonmul"
android:layout_alignStart="@id/buttonmul"
android:layout_below="@id/buttonmul"
android:text="/" />
```

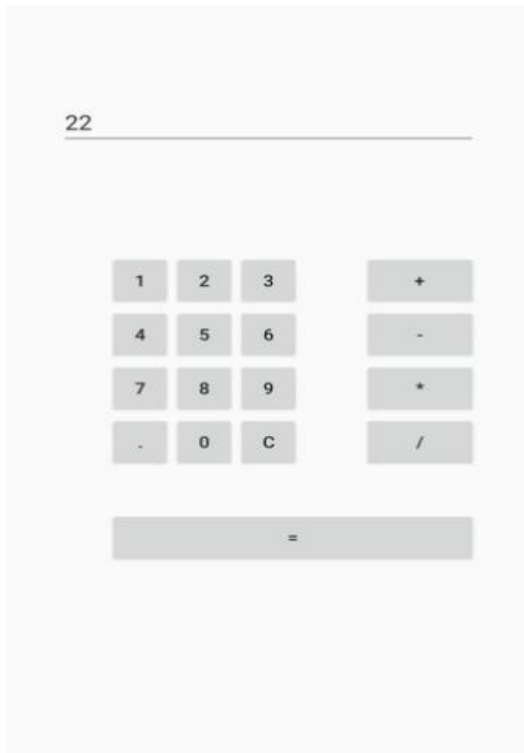
Practical No: _____

Mobile Application Development

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/buttoneql"
    style="?android:attr/buttonStyleSmall"
    android:layout_alignEnd="@id/buttondiv"
    android:layout_alignLeft="@id/button10"
    android:layout_alignRight="@id/buttondiv"
    android:layout_alignStart="@id/button10"
    android:layout_below="@+id/button0"
    android:layout_marginTop="37dp"
    android:text="=" />
```

</RelativeLayout>

Output



Practical No: 10

X. Exercise

```
1. <?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Facebook"
        android:gravity="center"
        android:textSize="40dp"
        android:textColor="#FFF"
        android:background="#0000FF"/>

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Enter Username"
        android:gravity="center"
        android:layout_marginTop="120dp"
        android:layout_marginRight="40dp"
        android:layout_marginLeft="40dp" />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Enter Password"
        android:gravity="center"
        android:layout_marginTop="40dp"
        android:layout_marginRight="40dp"
        android:layout_marginLeft="40dp" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:gravity="center"
        android:layout_gravity="center"
        android:layout_marginTop="50dp"
        android:text="LOGIN"
        android:textSize="30sp"
        android:textStyle="italic"/>

    <TextView
```

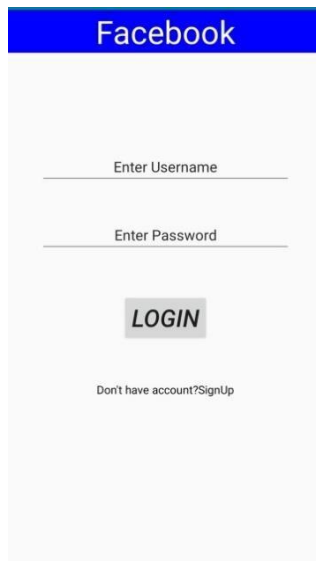
Practical No: _____

Mobile Application Development

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Don't have account?SignUp"
android:textColor="#000000"
android:gravity="center"
android:layout_gravity="center"
android:layout_marginTop="50dp"/>
```

</LinearLayout>

Output



```
2. <?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:background="#CCEEFF"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Enter Username"
        android:gravity="center"
        android:layout_marginTop="120dp"
        android:layout_marginRight="40dp"
        android:layout_marginLeft="40dp" />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Enter Password"
        android:gravity="center"
        android:layout_marginTop="40dp"
```

Practical No: _____

Mobile Application Development

```
android:layout_marginRight="40dp"  
android:layout_marginLeft="40dp" />
```

```
<Button  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:gravity="center"  
    android:layout_gravity="center"  
    android:layout_marginTop="50dp"  
    android:text="LOGIN"  
    android:textSize="30sp"  
    android:textStyle="italic"/>
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Don't have account?Register"  
    android:textColor="#000000"  
    android:gravity="center"  
    android:layout_gravity="center"  
    android:layout_marginTop="50dp"/>
```

```
</LinearLayout>
```

Output



Practical No: _____

Practical No: 11

1. .xml file

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <CheckBox
        android:id="@+id/cb1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Pizza"
        android:gravity="center"
        android:textSize="20sp"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="150dp"/>

    <CheckBox
        android:id="@+id/cb2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Burger"
        android:gravity="center"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="50dp"
        android:textSize="20sp" />

    <CheckBox
        android:id="@+id/cb3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Coffee"
        android:textSize="20sp"
        android:gravity="center"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="50dp" />

    <Button
        android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:gravity="center"
        android:text="Submit"
        android:layout_marginTop="70dp"
```

Practical No: _____

Mobile Application Development

```
android:textSize="30sp"  
android:textColor="#000000"/>
```

```
</LinearLayout>
```

.java file

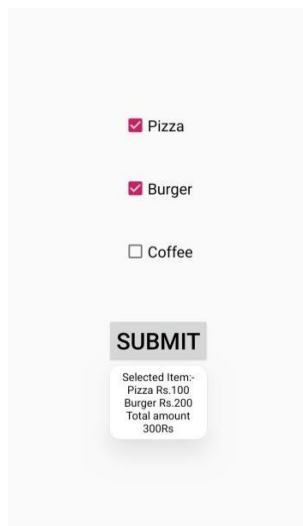
```
package com.example.p11_1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
    CheckBox pizza,burger,coffee;  
    Button bu1;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        pizza=findViewById(R.id.cb1);  
        burger=findViewById(R.id.cb2);  
        coffee=findViewById(R.id.cb3);  
        bu1=findViewById(R.id.b1);  
        bu1.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View v) {  
                StringBuffer res=new StringBuffer();  
                int sum=0;  
                res.append("Selected Item: -"+"\n");  
                if(pizza.isChecked())  
                {  
                    res.append("Pizza Rs.100"+"\n");  
                    sum=sum+100;  
                }  
                if (burger.isChecked())  
                {  
                    res.append("Burger Rs.200"+"\n");  
                    sum=sum+200;  
                }  
                if (coffee.isChecked())  
                {  
                    res.append("Coffee Rs.300"+"\n");  
                    sum=sum+300;  
                }  
            }  
        })  
    }  
}
```

Practical No: _____

Mobile Application Development

```
res.append("Total amount"+"\\n"+sum+"Rs");  
Toast.makeText(MainActivity.this, res.toString(), Toast.LENGTH_LONG).show();  
}  
});  
}  
}
```

Output



Practical No: _____

Practical No: 12

```
1. <?xml version="1.0" encoding="utf-8"?>
  <LinearLayout 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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:text="Single Radio Buttons"
      android:gravity="center"
      android:id="@+id/text1"
      android:layout_marginTop="40dp"
      android:textSize="20dp"/>

    <RadioButton
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="Radio Button 1"
      android:layout_marginTop="70dp"
      android:id="@+id/rb1"/>

    <RadioButton
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="Radio Button 2"
      android:layout_marginTop="20dp"
      android:id="@+id/rb2"/>

    <TextView
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_gravity="center"
      android:id="@+id/text2"
      android:paddingLeft="50dp"
      android:layout_marginTop="20dp"
      android:gravity="center"
      android:text="Radio button inside RadioGroup"
      android:textSize="20dp" />

    <RadioGroup
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_marginTop="30dp"
      android:id="@+id/rg1">
```

Practical No: _____

Mobile Application Development

```
<RadioButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Male"
    android:layout_marginTop="20dp"
    android:id="@+id/rb3"/>
```

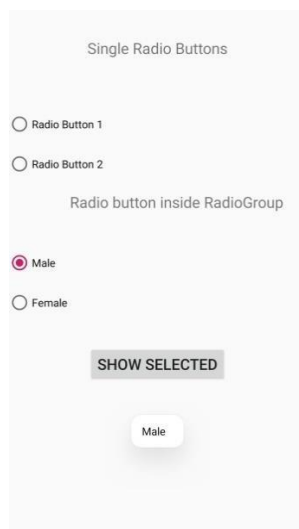
```
<RadioButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Female"
    android:layout_marginTop="20dp"
    android:id="@+id/rb4"/>
```

```
</RadioGroup>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Show selected"
    android:layout_gravity="center"
    android:gravity="center"
    android:layout_marginTop="40dp"
    android:textSize="20dp"
    android:id="@+id/button1"/>
```

```
</LinearLayout>
```

Output



Practical No: _____