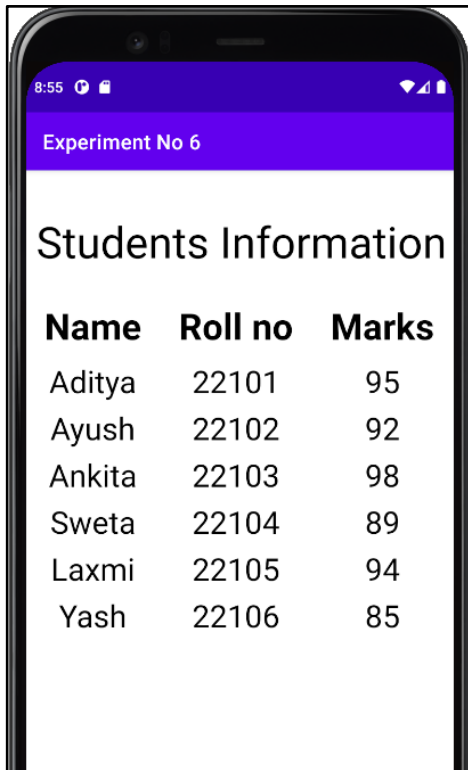


Practical 6

1. Write a program to print information of five students using Table Layout.

Code :

```
<?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"
tools:context=".MainActivity"
android:stretchColumns="*">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Students Information"
    android:textSize="42dp"
    android:layout_marginLeft="10dp"
    android:layout_marginTop="40dp"
    android:textColor="@color/black"
/>
<TableRow android:layout_marginTop="30dp">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Name"
    android:textStyle="bold"
    android:textSize="35dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center"
/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Roll no"
    android:textStyle="bold"
    android:textSize="35dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center"
/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Marks"
    android:textStyle="bold"
    android:textSize="35dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center"
/>
</TableRow>
<TableRow android:layout_marginTop="10dp">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Aditya"
    android:textSize="30dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center"
/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="22101"
    android:textSize="30dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center"
/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="95"
    android:textSize="30dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center" />
</TableRow>
<TableRow android:layout_marginTop="5dp">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Ayush"
    android:textSize="30dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center"
/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="22102"
    android:textSize="30dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center"
/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="92"
    android:textSize="30dp"
    android:layout_gravity="center"
    android:textColor="@color/black"
    android:gravity="center" />
</TableRow>
</TableLayout>
```

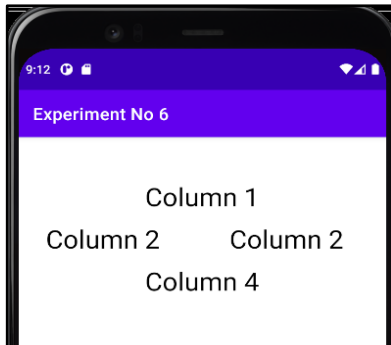
2. Write a program to display the output using table layout.

Code:

```
<?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"
tools:context=".MainActivity"
android:stretchColumns="*"
>
<TableRow android:layout_marginTop="50dp">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Column 1"
android:textColor="@color/black"
android:textSize="30dp"
android:layout_gravity="center"
android:layout_span="3"
/>
</TableRow>
<TableRow android:layout_marginTop="10dp">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Column 2"
```

```
android:textColor="@color/black"
android:textSize="30dp"
android:layout_gravity="center"
android:layout_span="2"
/>
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Column 2"
android:textColor="@color/black"
android:textSize="30dp"
android:layout_gravity="center"
android:layout_span="1"
/>
</TableRow>
<TableRow android:layout_marginTop="10dp">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Column 4"
android:textColor="@color/black"
android:textSize="30dp"
android:layout_gravity="center"
android:layout_span="3"
/>
</TableRow>
</TableLayout>
```

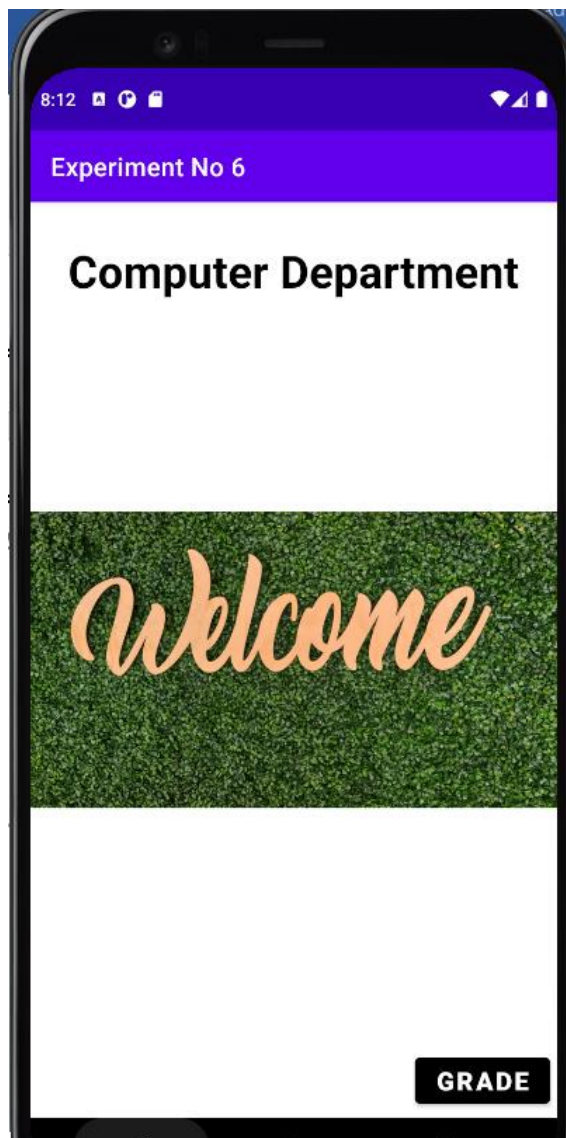
Output:



3. Write a program to generate then form using Frame Layout.

Code:

```
<?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"
    tools:context=".MainActivity">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Computer Department"
        android:layout_gravity="top"
        android:gravity="center"
        android:textSize="35dp"
        android:layout_marginTop="30dp"
        android:textStyle="bold"
        android:textColor="@color/black" />
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:src="@drawable/img"
        android:layout_gravity="center"
        android:scaleType="fitCenter"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|right"
        android:layout_marginRight="5dp"
        android:layout_marginBottom="5dp"
        android:backgroundTint="@color/black"
        android:gravity="center"
        android:text="Grade"
        android:textColor="@color/white"
        android:textSize="20dp"
        android:textStyle="bold"/>
</FrameLayout>
```

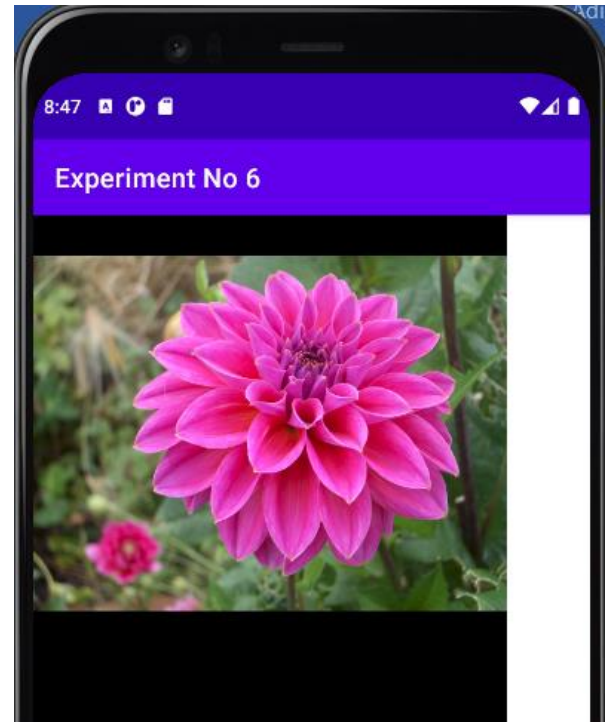


4. Write a program to create the form using frame Layout.

Code:

```
<?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"
    tools:context=".MainActivity"
    android:orientation="vertical"
    android:weightSum="5"
    >
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="New"
        android:textSize="40dp"
        android:backgroundTint="@color/black"
        android:layout_margin="1dp"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Save"
        android:textSize="40dp"
        android:backgroundTint="@color/black"
        android:layout_margin="1dp"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="2"
        android:text="Update"
        android:textSize="40dp"
        android:backgroundTint="@color/black"
        android:layout_margin="1dp"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Delete"
        android:textSize="40dp"
        android:backgroundTint="@color/black"
        android:layout_margin="1dp"
    />
</LinearLayout>
```

Output :



5. Write a program to create the below form using Relative Layout.

Code:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="100dp"
        android:text="Sign In"
        android:textSize="50dp"
        android:layout_centerHorizontal="true"
        android:layout_alignParentTop="true"
        android:textColor="@color/black"
        android:layout_marginTop="40dp"
    />
    <TextView
        android:id="@+id/username"
        android:layout_width="wrap_content"
        android:layout_height="45dp"
        android:text="Username : "
        android:textSize="30dp"
        android:layout_marginTop="150dp"
        android:textColor="@color/black"
        android:layout_alignParentTop="true"
        android:paddingLeft="15dp"
    />
    <TextView
        android:layout_below="@+id/username"
        android:layout_width="wrap_content"
        android:layout_height="45dp"
        android:text="Password : "
        android:textSize="30dp"
        android:layout_marginTop="40dp"
        android:textColor="@color/black"
        android:paddingLeft="15dp"
    />
    <EditText
        android:id="@+id/text"
        android:layout_width="match_parent"
        android:layout_height="45dp"
        android:layout_toRightOf="@+id/username"
        android:layout_marginTop="150dp"
        android:hint="Enter Username"
        android:paddingRight="15dp"
        android:textSize="25dp"
    />
    <EditText
        android:layout_width="match_parent"
```

```
        android:layout_height="45dp"
        android:layout_toRightOf="@+id/username"
        android:layout_marginTop="40dp"
        android:hint="Enter Password"
        android:paddingRight="15dp"
        android:textSize="25dp"
        android:layout_below="@+id/text"
    />
    <Button
        android:layout_width="170dp"
        android:layout_height="70dp"
        android:text="Sign In"
        android:textSize="30dp"
        android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        android:backgroundTint="@color/black"
    />
</RelativeLayout>
```

Output :



6. Write a program to create the below form using Relative Layout.

Code:

```
<?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=".MainActivity2">
    <Button
        android:id="@+id/parent"
        android:layout_width="wrap_content"
        android:layout_height="100dp"
        android:backgroundTint="#01023b"
        android:text="Home"
        android:textSize="40dp"
        android:textColor="#f5ff00"
        android:layout_marginTop="40dp"
        android:layout_marginLeft="20dp"
    />
    <Button
        android:layout_toRightOf="@+id/parent"
        android:layout_width="wrap_content"
        android:layout_height="100dp"
        android:backgroundTint="#01023b"
        android:text="About"
        android:textSize="40dp"
        android:textColor="#f5ff00"
        android:layout_marginTop="40dp"
        android:layout_marginLeft="20dp"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="100dp"
        android:backgroundTint="#01023b"
        android:text="Help"
        android:textSize="40dp"
        android:textColor="#f5ff00"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:layout_below="@+id/parent"
    />
    <TextView
        android:layout_width="105dp"
        android:layout_height="65dp"
        android:text="Id : "
        android:textSize="50dp"
        android:layout_below="@+id/parent"
        android:layout_marginTop="170dp"
        android:paddingLeft="20dp"
        android:textColor="@color/black"
        android:id="@+id/ID"
    />
    <EditText
```



```
        android:layout_width="match_parent"
        android:layout_height="65dp"
        android:layout_toRightOf="@id/ID"
        android:layout_below="@id/parent"
        android:layout_marginTop="175dp"
        android:hint="Enter your Id"
        android:textSize="40dp"
        android:inputType="number"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="100dp"
        android:backgroundTint="#01023b"
        android:text="Sign In"
        android:textSize="40dp"
        android:textColor="#f5ff00"
        android:layout_marginTop="260dp"
        android:layout_marginLeft="100dp"
        android:layout_below="@+id/parent"
    />
</RelativeLayout>
```

Output :



7. Write a program to create the below form using Relative Layout.

Code:

```
<?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"
    >
    <Button
        android:id="@+id/parent"
        android:layout_width="135dp"
        android:layout_height="80dp"
        android:backgroundTint="#01023b"
        android:text="B1"
        android:textSize="30dp"
        android:textColor="#f5ff00"
        android:layout_marginTop="40dp"
    />
    <Button
        android:layout_width="match_parent"
        android:layout_height="80dp"
        android:backgroundTint="#01023b"
        android:text="B2"
        android:textSize="30dp"
        android:textColor="#f5ff00"
        android:layout_marginTop="40dp"
        android:layout_marginLeft="10dp"
        android:layout_toRightOf="@id/parent"
    />
    <Button
        android:id="@+id/middle"
        android:layout_width="135dp"
        android:layout_height="80dp"
        android:layout_below="@id/parent"
        android:layout_marginTop="190dp"
        android:backgroundTint="#01023b"
        android:text="B1"
        android:textColor="#f5ff00"
        android:textSize="30dp"
    />
    <Button
        android:layout_width="135dp"
        android:layout_height="80dp"
        android:backgroundTint="#01023b"
        android:text="B2"
        android:textSize="30dp"
        android:textColor="#f5ff00"
        android:layout_marginTop="190dp"
        android:layout_toRightOf="@id/middle"
        android:layout_below="@id/parent"
        android:layout_marginLeft="10dp"
        android:id="@+id/middle2"
```

```
</>
<Button
    android:layout_width="135dp"
    android:layout_height="80dp"
    android:layout_below="@id/parent"
    android:layout_marginLeft="10dp"
    android:layout_marginTop="190dp"
    android:layout_toRightOf="@id/middle2"
    android:backgroundTint="#01023b"
    android:text="B8"
    android:textColor="#f5ff00"
    android:textSize="30dp" />
<Button
    android:layout_width="match_parent"
    android:layout_height="80dp"
    android:backgroundTint="#01023b"
    android:text="Button 8"
    android:textSize="30dp"
    android:textColor="#f5ff00"
    android:layout_alignParentBottom="true"
    android:id="@+id/b8"
/>
<Button
    android:layout_width="135dp"
    android:layout_height="80dp"
    android:backgroundTint="#01023b"
    android:text="B7"
    android:textSize="30dp"
    android:textColor="#f5ff00"
    android:layout_marginLeft="145dp"
    android:layout_above="@+id/b8"
/>
</RelativeLayout>
```

Output :

