**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>

<TableRow android:layout\_marginTop="5dp">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Ankita"

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="22103"

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="98"

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="Sweta"

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="22104"

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="89"

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="Laxmi"

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="22105"

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="94"

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="Yash"

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="22106"

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="85"

android:textSize="30dp"

android:layout\_gravity="center"

android:textColor="@color/black"

android:gravity="center"

/>

</TableRow>

</TableLayout>

Output :

Table

Description automatically generated

1. Write a program to display the output using table layou t.

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:

Graphical user interface, text, application, chat or text message

Description automatically generated

1. 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"

Graphical user interface, text

Description automatically generated with medium confidence 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>

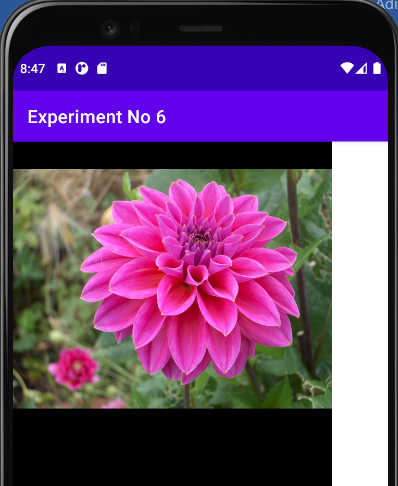
1. Write a program to create the form using frame Layout.

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"

Graphical user interface, application

Description automatically generated 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 :

1. 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"

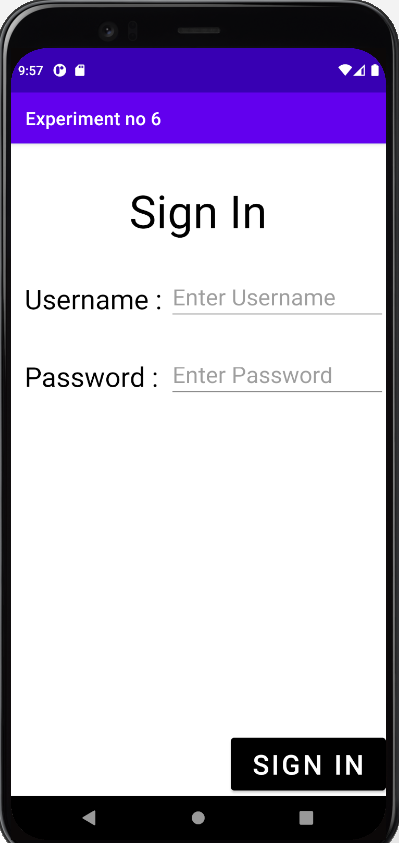
android:layout\_alignParentRight="true"

android:backgroundTint="@color/black"

/>

</RelativeLayut>

Output :



1. 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 yout 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 :

Graphical user interface, application, Teams

Description automatically generated

1. 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"

Teams

Description automatically generated with medium confidence 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 :