**7. Use (a) Linear Layout (b) Relative Layout and (c) Grid Layout or Table Layout**

a)

activity\_main.xml:::

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingLeft="16dp"

android:paddingRight="16dp"

android:orientation="vertical" >

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/app\_name" />

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/app\_name" />

<EditText

android:layout\_width="match\_parent"

android:layout\_height="0dp"

android:layout\_weight="1"

android:gravity="top"

android:hint="@string/app\_name" />

<Button

android:layout\_width="100dp"

android:layout\_height="wrap\_content"

android:layout\_gravity="right"

android:text="@string/app\_name" />

</LinearLayout>

b)

activity\_main.xml:::

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:paddingLeft="16dp"

android:paddingRight="16dp" >

<EditText

android:id="@+id/name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="@string/app\_name" />

<Spinner

android:id="@+id/dates"

android:layout\_width="0dp"

android:layout\_height="wrap\_content"

android:layout\_below="@id/name"

android:layout\_alignParentLeft="true"

android:layout\_toLeftOf="@+id/times" />

<Spinner

android:id="@id/times"

android:layout\_width="96dp"

android:layout\_height="wrap\_content"

android:layout\_below="@id/name"

android:layout\_alignParentRight="true" />

<Button

android:layout\_width="96dp"

android:layout\_height="wrap\_content"

android:layout\_below="@id/times"

android:layout\_alignParentRight="true"

android:text="@string/app\_name" />

</RelativeLayout>

c)

activity\_main.xml:::

<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:id="@+id/GridLayout1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:columnCount="3"

android:rowCount="3"

android:orientation="horizontal"

tools:context="com.example.lab7c.MainActivity" >

<Space />

<Button

android:id="@+id/button1"

android:layout\_gravity="left|top"

android:text="@string/app\_name" />

<Button

android:id="@+id/button3"

android:layout\_gravity="left|top"

android:text="@string/app\_name" />

<Button

android:id="@+id/button2"

android:layout\_column="0"

android:layout\_gravity="left|top"

android:layout\_row="0"

android:text="@string/app\_name" />

<Button

android:id="@+id/button4"

android:layout\_column="0"

android:layout\_gravity="left|top"

android:layout\_row="2"

android:text="@string/app\_name" />

<Button

android:id="@+id/button5"

android:layout\_column="1"

android:layout\_row="2"

android:layout\_columnSpan="2"

android:layout\_gravity="fill"

android:text="@string/app\_name" />

</GridLayout>

d)

activity\_main.xml:::

<?xml version="1.0" encoding="utf-8"?>

<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:stretchColumns="1">

<TableRow>

<TextView

android:text="@string/app\_name"

android:padding="3dip" />

<TextView

android:text="@string/app\_name"

android:gravity="right"

android:padding="3dip" />

</TableRow>

<TableRow>

<TextView

android:text="@string/app\_name"

android:padding="3dip" />

<TextView

android:text="@string/app\_name"

android:gravity="right"

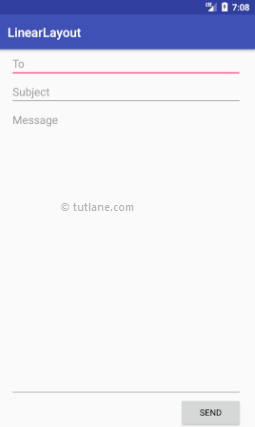
android:padding="3dip" />

</TableRow>

</TableLayout>

Output of Android LinearLayout Example

When we run above example using the android virtual device (AVD) we will get a result like as shown below.



## Output of Android RelativeLayout Example

When we run above example using the android virtual device (AVD) we will get a result like as shown below.



## Output of Android TableLayout Example

When we run above example using the android virtual device (AVD) we will get a result like as shown below.

