Ex.No: 2 Date :	Develop an application that uses Layout Managers and Even Listeners	t
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AIM:

To develop an application that uses Layout Managers and Event Listeners.

PROCEDURE:

- 1. Open Eclipse IDE.
- 2. Create the project Ex_No_2.
- 3. Go to package explorer in the left hand side. Select the project Ex_No_2.
- 4. Go to res folder and select layout. Double click the activity_main.xml file.
- 5. Now you can see the Graphical layout window.
- 6. Drag and drop the following components:
 - a. Four TextViews with texts as Name, Gender, Degree and Programming Knowledge b. One EditText
 - c. One Spinner
 - d. One RadioGroup with two RadioButtons labeled as B.E. CSE and B.Tech. IT e. One RatingBar
 - f. One Button with labeled as SUBMIT
- 7. Again go to package explorer in the left hand side. Select the project Ex_No_2.
- 8. Go to src folder. Double click the MainActivity.java file.
- 9. In java file write the activities done by the application such as, actions of button.
- 10. Finally run the android application.

PROGRAMS:

activity_main.xml:

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools" an-
    droid:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.ex_no_2.MainActivity" >

<TextView
    android:id="@+id/textView1"
    "
    android:layout_width="wrap</pre>
```

```
_content"
    android:layout_height="wra
    p_content"
    android:layout_alignParent
    Left="true"
    android:layout_alignParent
    Top="true"
    android:text="Name"
    android:textAppearance="?android:attr/textAppearanceMedium"
    tools:ignore="HardcodedText" />
<EditText
    android:id="@+id/editText1"
    android:layout_width="wrap_c
    ontent"
    android:layout_height="wrap_
    content"
    android:layout_alignTop="@+i
    d/textView1"
    android:layout_marginLeft="1
    4dp"
    android:layout_toRightOf="@+
    id/textView1"
    android:ems="10"
    tools:ignore="TextFields" >
    <request
    Focus />
</EditText>
<TextView
    android:id="@+id/textView2
    android:layout_width="wrap
    _content"
    android:layout_height="wra
    p_content"
    android:layout_alignParent
    Left="true"
    android:layout_below="@+id
    /editText1"
    android:layout_marginTop="
    14dp"
    android:text="Gender"
    android:textAppearance="?android:attr/textAppearanceMedium"
    tools:ignore="HardcodedText" />
<Spinner
    android:id="@+id/spinner1"
```

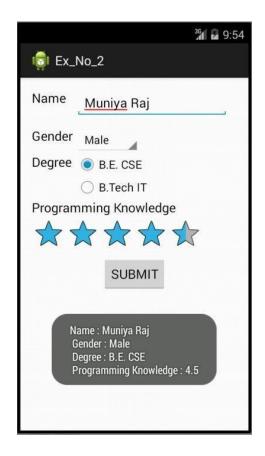
```
android:layout width="wrap c
    ontent"
    android:layout_height="wrap_
    content"
    android:layout_alignLeft="@+
    id/editText1"
    android:layout_alignTop="@+i
    d/textView2"
    android:entries="@array/Gend
    er" />
<TextView
    android:id="@+id/textView3
    android:layout width="wrap
    _content"
    android:layout_height="wra
    p_content"
    android:layout_alignParent
    Left="true"
    android:layout_below="@+id
    /spinner1"
    android:text="Degree"
    android:textAppearance="?android:attr/textAppearanceMedium"
    tools:ignore="HardcodedText" />
<RadioGroup
    android:id="@+id/radioGrou
    p1"
    android:layout_width="wrap
    content"
    android:layout_height="wra
    p_content"
    android:layout_alignLeft="
    @+id/spinner1"
    android:layout_below="@+id
    /spinner1" >
    <RadioButton
        android:id="@+id/radio0"
        android:layout width="wr
        ap content"
        android:layout height="w
        rap_content"
        android:checked="true"
        android:text="B.E. CSE"
        tools:ignore="HardcodedT
        ext" />
```

```
<RadioBu
    tton
        android:id="@+id/radio1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="B.Tech IT"
        tools:ignore="HardcodedText" />
</RadioGroup
<RatingBar
    android:id="@+id/ratingBar1"
    android:layout_width="wrap_c
    ontent"
    android:layout_height="wrap_
    content"
    android:layout_alignLeft="@+
    id/textView4"
    android:layout below="@+id/t
    extView4" />
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_con
    tent"
    android:layout height="wrap co
    ntent"
    android:layout_alignLeft="@+id
    /textView3"
    android:layout below="@+id/rad
    ioGroup1"
    android:text="Programming"
    Knowledge" an-
    droid:textAppearance="?android:attr/textAppearanceMedium"
    tools:ignore="HardcodedText" />
<Button
    android:id="@+id/button1"
    android:layout width="wrap c
    ontent"
    android:layout_height="wrap_
    content"
    android:layout_below="@+id/r
    atingBar1"
    android:layout_centerHorizon
    tal="true"
    android:text="SUBMIT"
    tools:ignore="HardcodedText"
    />
```

```
</Rela
tiveLay
out>
MainActivity.java:
package com.example.ex no 2;
import
android.support.v7.app.ActionBarAct
                  android.os.Bundle;
ivity;
          import
import
         android.view.View:
android.view.View.OnClickListener;
import android.widget.Button; import
android.widget.EditText;
                               import
android.widget.RadioButton;
                               import
android.widget.RadioGroup;
import
android.widget.RadioGroup.OnCheckedChangeListener;
import android.widget.RatingBar;
import
android.widget.RatingBar.OnRatingBarChangeLis
tener; import android.widget.Spinner; import
android.widget.Toast;
public class MainActivity extends ActionBarActivity {
       String
       name, gender,
              float
       dept;
       prog;
       @Override
 protected void onCreate(Bundle savedInstanceState) {
          super.onCreate(savedInstanceState);
setContentView(R.layout.activity main); final EditText
 e=(EditText)findViewById(R.id.editText1); RadioGroup
 rg=(RadioGroup)findViewById(R.id.radioGroup1); final
RadioButton r1=(RadioButton)findViewById(R.id.radio0);
                   final RadioButton
   r2=(RadioButton)findViewById(R.id.radio1); final
    Spinner s=(Spinner)findViewById(R.id.spinner1);
RatingBar rb=(RatingBar)findViewById(R.id.ratingBar1);
     Button b=(Button)findViewById(R.id.button1);
          rg.setOnCheckedChangeListener( new
               OnCheckedChangeListener()
                           {
                                  @Override
                                  public void onCheckedChanged(RadioGroup arg0, int
                                  arg1) {
                                         // TODO Auto-generated
                                         method
                                         if(r1.isChecked()==tru
                                         e) dept="B.E. CSE";
                                         if(r2.isChecked()==true)
                                               dept="B.Tech IT";
```

```
}
             rb.setOnRatingBarChangeListener(
                          OnRatingBarChangeLi
                          stener()
                          {
                                 @Override
                                 public void onRatingChanged(RatingBar arg0, float
                                              arg1, boolean arg2) {
                                 // TODO Auto-generated method stub
prog=arg1;
                                 }
             b.setOnClickListener(
                          OnClickLi
                          stener()
                                 @Override
                               public void onClick(View
                                        arg0) {
                                        // TODO Auto-generated method stub
                                        name=e.getText().toString();
                                        gender=s.getSelectedItem().toString();
                                       Toast.makeText(getApplicationContext(),
     "Name : "+name+"\n Gender : "+gender+"\n Degree : "+dept+"\n Programming
Knowledge : "+prog, Toast.LENGTH_LONG).show();
                          });
       }
}
```

OUTPUT:



RESULT:

daval	Thus the applicatio	n that uses Layou	it Managers and	Event Listener	has been
devel	oped and the outpu	t was verified.			