Program 12

Use of Spinner widget in android application demonstration.

MainActivity.java

```
package com.example.a12spinnerwidget;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Spinner;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import android.widget.ArrayAdapter;

public class MainActivity extends AppCompatActivity {
 // these are the global variables
 Spinner classSpinner, divSpinner;
 // string variable to store selected values
 String selectedClass, selectedDiv;

 @Override
 protected void onCreate(Bundle savedInstanceState) {
 super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_main);

 classSpinner = (Spinner) findViewById(R.id.classSpinner);
divSpinner = (Spinner) findViewById(R.id.divSpinner);

 // Class Spinner implementing onItemSelectedListener
classSpinner.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {
 @Override
 public void onItemSelected(AdapterView<?> parent, View view,  int
position, long id) {

 String selectedClass =
parent.getItemAtPosition(position).toString();
 switch (selectedClass) {
 case "Class 1":
 // assigning div item list defined in XMLto the div  Spinner

 divSpinner.setAdapter(new
 ArrayAdapter<String>(MainActivity.this,
android.R.layout.simple_spinner_dropdown_item,

getResources().getStringArray(R.array.items_div_class_1)));
break;

 case "Class 2":
 divSpinner.setAdapter(new
                                    ArrayAdapter<String>(MainActivity.this,

android.R.layout.simple_spinner_dropdown_item,

getResources().getStringArray(R.array.items_div_class_2)));
break;
```

```
 case "Class 3":
 divSpinner.setAdapter(new
 ArrayAdapter<String>(MainActivity.this,
android.R.layout.simple_spinner_dropdown_item,

getResources().getStringArray(R.array.items_div_class_3)));
Toast.makeText(MainActivity.this, "\n Class: \t " +  selectedClass,
Toast.LENGTH_LONG).show();
 break;

 case "Class 4":
 divSpinner.setAdapter(new
                                    ArrayAdapter<String>(MainActivity.this,


android.R.layout.simple_spinner_dropdown_item,


getResources().getStringArray(R.array.items_div_class_4)));
Toast.makeText(MainActivity.this, "\n Class: \t " +  selectedClass,
Toast.LENGTH_LONG).show();
 break;
 }
 //set divSpinner Visibility to Visible
                 divSpinner.setVisibility(View.VISIBLE);
 }

 @Override
 public void onNothingSelected(AdapterView<?> parent) {  // can
leave this empty
 }
 });
 // Div Spinner implementing onItemSelectedListener
divSpinner.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {
 @Override
 public void onItemSelected(AdapterView<?> parent, View  view, int
position, long id) {
 selectedDiv =
  parent.getItemAtPosition(position).toString();  // create a Toast to
      show the values on screen Toast.makeText(MainActivity.this,

 "\n Div: \t" + selectedDiv,
 Toast.LENGTH_LONG).show();
 }

 @Override
 public void onNothingSelected(AdapterView<?> parent) {  // can
leave this empty
 }

 });
 }
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context="com.example.a12spinnerwidget.MainActivity">
```

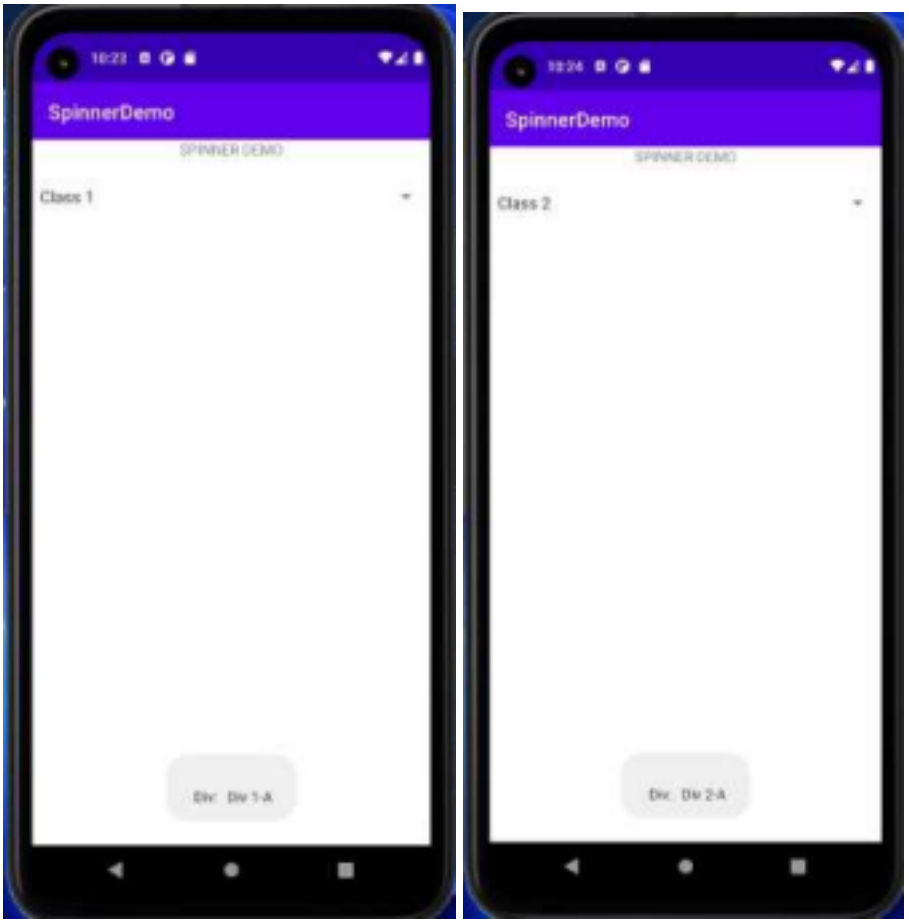
```
 <TextView
 android:id="@+id/tvDemo"
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:layout_alignParentStart="true"
 android:layout_alignParentTop="true"
 android:gravity="center"
 android:text="SPINNER DEMO"
 android:layout_alignParentLeft="true" />

 <Spinner
 android:id="@+id/classSpinner"
 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:layout_below="@+id/tvDemo"
 android:layout_marginTop="25dp"
 android:entries="@array/items_class"/>

 <Spinner
 android:id="@+id/divSpinner"
 android:visibility="gone"

 android:layout_width="match_parent"
 android:layout_height="wrap_content"
 android:layout_below="@id/classSpinner"
 android:layout_toLeftOf="@id/classSpinner"
 android:layout_marginTop="10dp"
 />
</RelativeLayout>
```

strings.xml

```
<resources>
<string name="app_name">SpinnerDemo</string>

<string-array name="items_class">
 <item>Class 1</item>
 <item>Class 2</item>
 <item>Class 3</item>
 <item>Class 4</item>
</string-array>

<string-array name="items_div_class_1">
 <item>Div 1-A</item>
 <item>Div 1-B</item>
 <item>Div 1-C</item>
 <item>Div 1-D</item>
</string-array>

<string-array name="items_div_class_2">
 <item>Div 2-A</item>
 <item>Div 2-B</item>

 <item>Div 2-C</item>
 <item>Div 2-D</item>
</string-array>

<string-array name="items_div_class_3">
 <item>Div 3-A</item>
 <item>Div 3-B</item>
 <item>Div 3-C</item>
```

```
 <item>Div 3-D</item>
</string-array>

<string-array name="items_div_class_4">
 <item>Div 4-A</item>
 <item>Div 4-B</item>
 <item>Div 4-C</item>
 <item>Div 4-D</item>
</string-array>

</resources>
```

OUTPUT:



10:24
SpinnerDemo
SPINNER DEMO
Class 3
Class: Class 3
10:25
SpinnerDemo
SPINNER DEMO
Class 4
Class: Class 4