

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 XML to 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>
</string-array>
```

```

        <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:



