

## 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 onItemClickSelectedListener
classSpinner.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
@Override
public void onItemClick(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.al2spinnerwidget.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

