# Program 12. Use of Spinner widget in android application

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"](http://schemas.android.com/apk/res/android) xmlns:tools="[http://schemas.android.com/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

 