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**

 