

## 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
                        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:



