

## 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.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:



