Program 12. Use of Spinner widget in android application demonstration.

<u>Main_Activity.java</u>

```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
```

```java
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_drop
down_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_drop
down_item, getResources().getStringArray(R.array.items_div_class_3)));

                Toast.makeText(MainActivity.this, "\n Class: \t " + selectedClass,
Toast.LENGTH_LONG).show();

  break;
```

```java
            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,
```

```java
                    "\n Div: \t" + selectedDiv,
                    Toast.LENGTH_LONG).show();
        }


        @Override
        public void onNothingSelected(AdapterView<?> parent) {
            // can leave this empty
        }


    });
    }
}
```

Activity_main.xml

```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"
```

```xml
        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

```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>
```

```xml
        <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: