


Experiment no : 12

SPINNER

- S1 : Design a page containing spinner with various types of options
 - S2 : Get a reference to the spinner from layout.
 - S3 : Create an ArrayAdapter using the string array resource and a default spinner layout.
 - S4 : Set the layout for the dropdown items and apply the adapter to the spinner
 - S5 : Set an OnItemSelectedListener on the spinner to handle item selection events
 - S6 : Stop.
- 

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Date:

SPINNER

AIM

Develop an application that implements Spinner component and perform event handling

SOURCE CODE

Design

ActivityMain.xml

```
<!-- activity_main.xml -->

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <Spinner
        android:id="@+id/spinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="40dp" />

    <TextView
        android:id="@+id/selected_item_text"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/spinner"
        android:layout_marginTop="253dp"
        android:text="Selected Item: "
        android:textSize="18sp"
        android:textStyle="bold" />

</RelativeLayout>
```

MainActivity.java

```
package com.example.spinner;
```



```
// MainActivity.java
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import java.util.ArrayList;
import java.util.List;

public class MainActivity extends AppCompatActivity {

    private Spinner spinner;
    private TextView selectedItemText;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        spinner = findViewById(R.id.spinner);
        selectedItemText = findViewById(R.id.selected_item_text);

        // Create a list of items for the spinner
        List<String> items = new ArrayList<>();
        items.add("Item 1");
        items.add("Item 2");
        items.add("Item 3");
        items.add("Item 4");

        // Create an ArrayAdapter using the items list and a default spinner layout
        ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple_spinner_item, items);
        // Specify the layout to use when the list of choices appears
        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        // Apply the adapter to the spinner
        spinner.setAdapter(adapter);
        // Set item selection listener for the spinner
        spinner.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```



```

@Override
public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
    // Get the selected item from the spinner
    String selectedItem = parent.getItemAtPosition(position).toString();
    // Display the selected item in the TextView
    selectedItemText.setText("Selected Item: " + selectedItem);
}

@Override
public void onNothingSelected(AdapterView<?> parent) {
    // Do something when nothing is selected
}

});
}
}

```

OUTPUT

