PROGRAM 11:

Develop an application that implements Spinner component and perform event handling

CODE:

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <Spinner
        android:id="@+id/my_spinner"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:minHeight="48dp" />

    <TextView
        android:id="@+id/selected_item"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:paddingTop="16dp" />
</LinearLayout>
```

MainActivity.java

```java
package com.example.record11;


import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private Spinner mySpinner;
    private TextView selectedItemTextView;

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

        mySpinner = findViewById(R.id.my_spinner);
        selectedItemTextView = findViewById(R.id.selected_item);

        // Create an ArrayAdapter using a string array and a default spinner layout
        ArrayAdapter<CharSequence> adapter = ArrayAdapter.createFromResource(this,
```

```java
        R.array.spinner_items, android.R.layout.simple_spinner_item);
    // 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
    mySpinner.setAdapter(adapter);

    // Set an item selected listener on the Spinner
    mySpinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
        @Override
        public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
            String selectedItem = parent.getItemAtPosition(position).toString();
            selectedItemTextView.setText("Selected: " + selectedItem);
        }

        @Override
        public void onNothingSelected(AdapterView<?> parent) {
            selectedItemTextView.setText("Nothing selected");
        }
    });
  }
}
```

strings.xml

```xml
<resources>
    <string name="app_name">Spinner Example</string>
    <string-array name="spinner_items">
        <item>Item 1</item>
        <item>Item 2</item>
        <item>Item 3</item>
        <item>Item 4</item>
    </string-array>
</resources>
```