**Xml file:**

**Main Activity.java** **<?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">  
  
 <EditText  
 android:id="@+id/inputTemp"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="@string/enter\_temp"  
 android:inputType="numberDecimal"/>  
  
 <Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:entries="@array/temp\_scales"/>  
  
 <Button  
 android:id="@+id/celsiusButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="To Celsius" />  
  
 <Button  
 android:id="@+id/fahrenheitButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="To Fahrenheit" />  
  
 <Button  
 android:id="@+id/kelvinButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="To Kelvin" />  
  
 <TextView  
 android:id="@+id/outputText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/output"  
 android:textSize="18sp"  
 android:gravity="center"/>  
  
 <Button  
 android:id="@+id/clearButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Clear"  
 android:layout\_gravity="center"/>  
</LinearLayout>**

**Java -**

package com.example.practice1;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Spinner;  
import android.widget.TextView;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText inputTemp;  
 TextView outputText;  
 Spinner spinner;  
 String selectedScale;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 inputTemp = findViewById(R.id.*inputTemp*);  
 outputText = findViewById(R.id.*outputText*);  
 spinner = findViewById(R.id.*spinner*);  
 Button celsiusButton = findViewById(R.id.*celsiusButton*);  
 Button fahrenheitButton = findViewById(R.id.*fahrenheitButton*);  
 Button kelvinButton = findViewById(R.id.*kelvinButton*);  
 Button clearButton = findViewById(R.id.*clearButton*);  
  
 spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() { // No lambda expression here  
 @Override  
 public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {  
 selectedScale = parent.getItemAtPosition(position).toString();  
 }  
  
 @Override  
 public void onNothingSelected(AdapterView<?> parent) {  
 selectedScale = "Celsius"; // Default to Celsius  
 }  
 });  
  
 celsiusButton.setOnClickListener(v -> convertTemperature("Celsius"));  
 fahrenheitButton.setOnClickListener(v -> convertTemperature("Fahrenheit"));  
 kelvinButton.setOnClickListener(v -> convertTemperature("Kelvin"));  
 clearButton.setOnClickListener(v -> {  
 inputTemp.setText("");  
 outputText.setText("Output");  
 });  
 }  
  
 private void convertTemperature(String toScale) {  
 if (inputTemp.getText().toString().isEmpty()) {  
 outputText.setText("Please enter a temperature");  
 return;  
 }  
 double temp = Double.*parseDouble*(inputTemp.getText().toString());  
 double result = 0.0;  
  
 if (selectedScale.equals("Celsius")) {  
 if (toScale.equals("Celsius")) {  
 result = temp;  
 } else if (toScale.equals("Fahrenheit")) {  
 result = temp \* 9 / 5 + 32;  
 } else if (toScale.equals("Kelvin")) {  
 result = temp + 273.15;  
 }  
 } else if (selectedScale.equals("Fahrenheit")) {  
 if (toScale.equals("Celsius")) {  
 result = (temp - 32) \* 5 / 9;  
 } else if (toScale.equals("Fahrenheit")) {  
 result = temp;  
 } else if (toScale.equals("Kelvin")) {  
 result = (temp - 32) \* 5 / 9 + 273.15;  
 }  
 } else if (selectedScale.equals("Kelvin")) {  
 if (toScale.equals("Celsius")) {  
 result = temp - 273.15;  
 } else if (toScale.equals("Fahrenheit")) {  
 result = (temp - 273.15) \* 9 / 5 + 32;  
 } else if (toScale.equals("Kelvin")) {  
 result = temp;  
 }  
 }  
 outputText.setText(String.*format*("Result: %.2f", result));  
 }  
}

**strings.xml**

<resources>  
 <string name="app\_name">Temperature Converter</string>  
 <string-array name="temp\_scales">  
 <item>Celsius</item>  
 <item>Fahrenheit</item>  
 <item>Kelvin</item>  
 </string-array>  
 <string name="enter\_temp">Enter Temperature</string> <!-- Added this line -->  
 <string name="output">Output</string>  
</resources>