Currency Converter

Code:

**ActivityMain.xml**

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<Spinner

android:id="@+id/spinner1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="30dp"

android:layout\_marginTop="140dp"

android:entries="@array/currencies"

android:minHeight="48dp"

tools:layout\_editor\_absoluteX="1dp"

tools:layout\_editor\_absoluteY="230dp" />

<EditText

android:id="@+id/ednum1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="140dp"

android:layout\_toRightOf="@id/spinner1"

android:ems="10"

android:hint="Value"

android:inputType="number"

android:minHeight="48dp" />

<Spinner

android:id="@+id/spinner2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/spinner1"

android:layout\_marginLeft="40dp"

android:layout\_marginTop="50dp"

android:entries="@array/currencies"

android:minHeight="48dp" />

<EditText

android:id="@+id/ednum2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/ednum1"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="40dp"

android:layout\_toRightOf="@id/spinner2"

android:ems="10"

android:hint="Value"

android:inputType="number"

android:minHeight="48dp" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/spinner2"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="27dp"

android:onClick="convertValues"

android:text="Convert" />

</RelativeLayout>

**MainActivity.java**

package com.example.cur\_con1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Spinner;

import android.widget.Toast;

import java.sql.Time;

public class MainActivity extends AppCompatActivity {

EditText ed1, ed2;

Spinner sp1, sp2;

String sp1Value, sp2Value;

Button btn;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ed1 = findViewById(R.id.ednum1);

ed2 = findViewById(R.id.ednum2);

sp1 = findViewById(R.id.spinner1);

sp2 = findViewById(R.id.spinner2);

btn = findViewById(R.id.button);

ArrayAdapter<CharSequence> arrayAdapter = ArrayAdapter.createFromResource(this, R.array.currencies, android.R.layout.simple\_spinner\_item);

arrayAdapter.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);

sp1.setAdapter(arrayAdapter);

sp2.setAdapter(arrayAdapter);

sp1.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {

sp1Value = (String) adapterView.getItemAtPosition(i);

}

@Override

public void onNothingSelected(AdapterView<?> adapterView) {

Toast.makeText(getApplicationContext(), "Select an item", Toast.LENGTH\_LONG).show();

}

});

sp2.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

@Override

public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {

sp2Value = (String) adapterView.getItemAtPosition(i);

}

@Override

public void onNothingSelected(AdapterView<?> adapterView) {

Toast.makeText(getApplicationContext(), "Select an item", Toast.LENGTH\_LONG).show();

}

});

}

public void convertValues(View view){

//Indian Rupee Conversion

if(sp1Value.equals("Indian Rupee") && sp2Value.equals("Dollar")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 0.012));

}

else if(sp1Value.equals("Indian Rupee") && sp2Value.equals("Euro")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 0.011));

}

else if(sp1Value.equals("Indian Rupee") && sp2Value.equals("Indian Rupee")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 1));

}

//Dollar Conversion

else if(sp1Value.equals("Dollar") && sp2Value.equals("Indian Rupee")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 82.87));

}

else if(sp1Value.equals("Dollar") && sp2Value.equals("Euro")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 0.93));

}

else if(sp1Value.equals("Dollar") && sp2Value.equals("Dollar")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 1));

}

//Euro Conversion

else if(sp1Value.equals("Euro") && sp2Value.equals("Indian Rupee")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 88.93));

}

else if(sp1Value.equals("Euro") && sp2Value.equals("Dollar")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 1.07));

}

else if(sp1Value.equals("Euro") && sp2Value.equals("Euro")){

Toast.makeText(getApplicationContext(), "Inside", Toast.LENGTH\_LONG).show();

float val1 = Float.parseFloat(ed1.getText().toString());

ed2.setText(String.valueOf(val1 \* 1));

}

}

}

**Output:**

 

 