EXERCISE 3

DESIGN AN APPLICATION FOR DIFFERENT CURRENCY CONVERSION SYSTEM

NAME : VENKATA SIRISHA MADDALA

REG.NO : 19BCE7024

ACTIVITY MAIN.XML:

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="128dp"
        android:layout_marginTop="91dp"
        android:layout_marginBottom="45dp"
        android:text="Enter inr value"
        android:textColor="#FF4CAF50"
        android:textSize="24sp"
        app:layout_constraintBottom_toTopOf="@+id/editTextTextPersonName"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="108dp"
        android:layout_marginBottom="61dp"
        android:ems="10"
        android:hint="inr value"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toTopOf="@+id/RG"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />
```

```xml
<RadioGroup
    android:id="@+id/RG"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:layout_marginStart="30dp"
    android:layout_marginEnd="30dp"
    android:layout_marginBottom="25dp"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName">

    <RadioButton
        android:id="@+id/RB_USD"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="to_usd" />

    <RadioButton
        android:id="@+id/RB_ERO"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="to_ero" />

    <RadioButton
        android:id="@+id/RB_JAP"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="to_jap" />

    <RadioButton
        android:id="@+id/RB_SING"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="to_sing" />

</RadioGroup>

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="36dp"
    android:text="Convert"
    android:textAllCaps="true"
    app:layout_constraintBottom_toTopOf="@+id/editTextTextPersonName2"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
```

```xml
            app:layout_constraintTop_toBottomOf="@+id/RG" />

    <EditText
        android:id="@+id/editTextTextPersonName2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="84dp"
        android:ems="10"
        android:hint="converted value"
        android:inputType="textPersonName"
        android:textColor="#4CAF50"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MAIN ACTIVITY.JAVA:

```java
package com.example.rb_currency_converter;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;

public class MainActivity extends AppCompatActivity {

    EditText inrVal,forVal;
    RadioGroup rg;
    RadioButton rb;
    Button convert;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        inrVal=findViewById(R.id.editTextTextPersonName);
        forVal=findViewById(R.id.editTextTextPersonName2);
        convert=(Button)findViewById(R.id.button);
        convert.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                rg=findViewById(R.id.RG);
```

```java
            int opt=rg.getCheckedRadioButtonId();
            rb=findViewById(opt);
            if(rb.getText().equals("to_usd"))
            {
                int rup=Integer.parseInt(inrVal.getText().toString());
                forVal.setText(String.valueOf(rup*0.013));
            }
            else if(rb.getText().equals("to_ero"))
            {
                int rup=Integer.parseInt(inrVal.getText().toString());
                forVal.setText(String.valueOf(rup*0.011));
            }
            else if(rb.getText().equals("to_jap"))
            {
                int rup=Integer.parseInt(inrVal.getText().toString());
                forVal.setText(String.valueOf(rup*1.52));
            }
            else if(rb.getText().equals("to_sing"))
            {
                int rup=Integer.parseInt(inrVal.getText().toString());
                forVal.setText(String.valueOf(rup*0.018));
            }
        }
    });
  }
}
```

OUTPUT:

RB_Currency_Converter

Enter inr value

inr value

○ to_usd

○ to_ero

○ to_jap

○ to_sing

CONVERT

converted value