## **EXERCISE 3**

## DESIGN AN APPLICATION FOR DIFFERENT CURRENCY CONVERSION SYSTEM

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```
ACTIVITY MAIN.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" />
```

```
<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">
    android:id="@+id/RB_USD"
    android:layout_width="match_parent"
    android:layout height="wrap content"
    android:text="to_usd" />
    android:id="@+id/RB_ERO"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="to_ero" />
    android:id="@+id/RB_JAP"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="to_jap" />
    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"
```

```
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:
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);
```

```
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:



