**Assignment**

**Xml file**

**<?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">**

**<ImageView**

**android:id="@+id/imageView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**app:srcCompat="@drawable/android"**

**tools:layout\_editor\_absoluteX="0dp"**

**tools:layout\_editor\_absoluteY="0dp" />**

**<TextView**

**android:id="@+id/TPrincipal"**

**android:layout\_width="54dp"**

**android:layout\_height="29dp"**

**android:text="0"**

**android:textSize="24sp"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.753"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.256" />**

**<TextView**

**android:id="@+id/TYear"**

**android:layout\_width="54dp"**

**android:layout\_height="29dp"**

**android:text="0"**

**android:textSize="24sp"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.753"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.384" />**

**<TextView**

**android:id="@+id/TRate"**

**android:layout\_width="54dp"**

**android:layout\_height="28dp"**

**android:text="0"**

**android:textSize="24sp"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.753"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.519" />**

**<TextView**

**android:id="@+id/TResult"**

**android:layout\_width="157dp"**

**android:layout\_height="38dp"**

**android:text="0.0"**

**android:textSize="24sp"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintHorizontal\_bias="0.775"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.702" />**

**<SeekBar**

**android:id="@+id/SPrincipal"**

**android:layout\_width="297dp"**

**android:layout\_height="29dp"**

**android:max="50"**

**android:min="0"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.321" />**

**<SeekBar**

**android:id="@+id/SYear"**

**android:layout\_width="297dp"**

**android:layout\_height="29dp"**

**android:max="20"**

**android:min="0"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.45" />**

**<SeekBar**

**android:id="@+id/SRate"**

**android:layout\_width="297dp"**

**android:layout\_height="29dp"**

**android:max="15"**

**android:min="0"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="0.591" />**

**</androidx.constraintlayout.widget.ConstraintLayout>**

**MainActivity.java**

**package com.example.simpleinterest;**

**import androidx.appcompat.app.AppCompatActivity;**

**import android.os.Bundle;**

**import android.widget.SeekBar;**

**import android.widget.TextView;**

**public class MainActivity extends AppCompatActivity {**

**SeekBar SPrincipal, SRate, SYear;**

**TextView TPrincipal, TRate, TYear, TResult;**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.activity\_main);**

**SPrincipal = findViewById(R.id.SPrincipal);**

**SRate = findViewById(R.id.SRate);**

**SYear = findViewById(R.id.SYear);**

**TPrincipal = findViewById(R.id.TPrincipal);**

**TRate = findViewById(R.id.TRate);**

**TYear = findViewById(R.id.TYear);**

**TResult = findViewById(R.id.TResult);**

**SPrincipal.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {**

**@Override**

**public void onProgressChanged(SeekBar seekBar, int i, boolean b) {**

**TPrincipal.setText(""+i);**

**int num1 = Integer.parseInt(TPrincipal.getText().toString());**

**int num2 = Integer.parseInt(TRate.getText().toString());;**

**int num = Integer.parseInt(TYear.getText().toString());**

**double si = (num1\*100000 \* num2 \* num) / 100;**

**TResult.setText(""+si);**

**}**

**@Override**

**public void onStartTrackingTouch(SeekBar seekBar) {**

**}**

**@Override**

**public void onStopTrackingTouch(SeekBar seekBar) {**

**}**

**});**

**SYear.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {**

**@Override**

**public void onProgressChanged(SeekBar seekBar, int i, boolean b) {**

**TYear.setText(""+i);**

**int num1 = Integer.parseInt(TPrincipal.getText().toString());**

**int num2 = Integer.parseInt(TRate.getText().toString());;**

**int num = Integer.parseInt(TYear.getText().toString());**

**double si = (num1\*100000 \* num2 \* num) / 100;**

**TResult.setText(""+si);**

**}**

**@Override**

**public void onStartTrackingTouch(SeekBar seekBar) {**

**}**

**@Override**

**public void onStopTrackingTouch(SeekBar seekBar) {**

**}**

**});**

**SRate.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {**

**@Override**

**public void onProgressChanged(SeekBar seekBar, int i, boolean b) {**

**TRate.setText(""+i);**

**int num1 = Integer.parseInt(TPrincipal.getText().toString());**

**int num2 = Integer.parseInt(TRate.getText().toString());;**

**int num = Integer.parseInt(TYear.getText().toString());**

**double si = (num1\*100000 \* num2 \* num) / 100;**

**TResult.setText(""+si);**

**}**

**@Override**

**public void onStartTrackingTouch(SeekBar seekBar) {**

**}**

**@Override**

**public void onStopTrackingTouch(SeekBar seekBar) {**

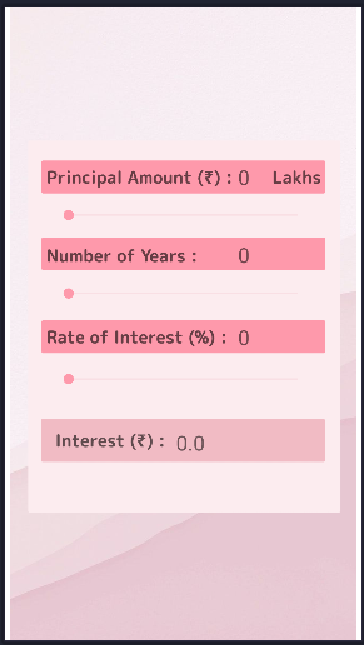
**}**

**});**

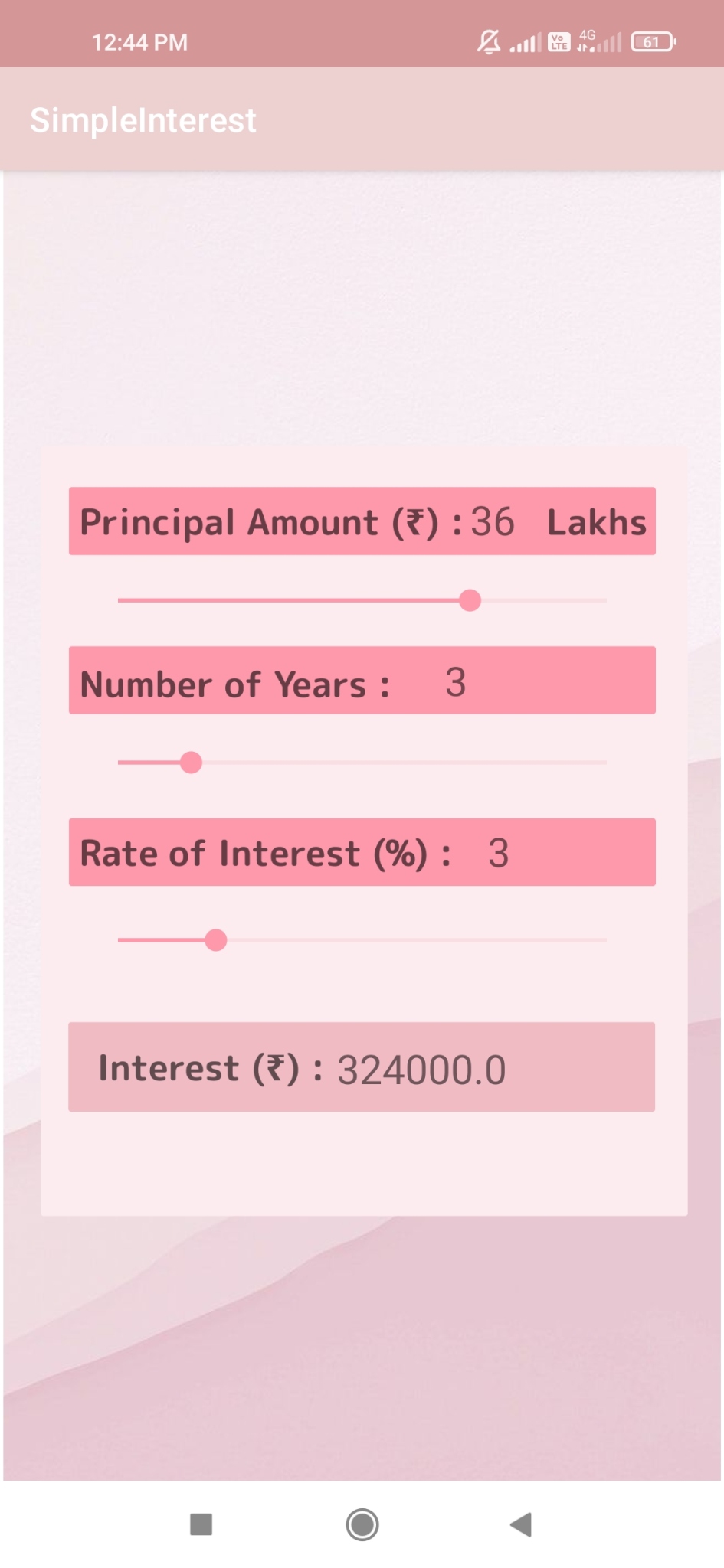
**}**

**}**

**Result.**

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