MENU DRIVEN

Menu\_main.xml

<menu 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"  
 tools:context="com.example.menu1.MainActivity">  
 <item  
 android:id="@+id/action\_settings"  
 android:orderInCategory="100"  
 android:title="@string/action\_settings"  
 app:showAsAction="never" />  
 <item  
 android:id="@+id/si"  
 android:orderInCategory="101"  
 android:title="Simple Interest" />  
 <item  
 android:id="@+id/ci"  
 android:orderInCategory="102"  
 android:title="Compound Interest" />  
</menu>

MainActivity.java

package com.example.menu1;  
  
import android.content.Intent;  
import android.os.Bundle;  
  
import com.google.android.material.snackbar.Snackbar;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.view.View;  
  
import androidx.core.view.WindowCompat;  
import androidx.navigation.NavController;  
import androidx.navigation.Navigation;  
import androidx.navigation.ui.AppBarConfiguration;  
import androidx.navigation.ui.NavigationUI;  
  
import com.example.menu1.databinding.ActivityMainBinding;  
  
import android.view.Menu;  
import android.view.MenuItem;  
  
public class MainActivity extends AppCompatActivity {  
  
 private AppBarConfiguration appBarConfiguration;  
 private ActivityMainBinding binding;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
  
 binding = ActivityMainBinding.*inflate*(getLayoutInflater());  
 setContentView(binding.getRoot());  
  
 setSupportActionBar(binding.toolbar);  
  
 NavController navController = Navigation.*findNavController*(this, R.id.*nav\_host\_fragment\_content\_main*);  
 appBarConfiguration = new AppBarConfiguration.Builder(navController.getGraph()).build();  
 NavigationUI.*setupActionBarWithNavController*(this, navController, appBarConfiguration);  
  
 binding.fab.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Snackbar.*make*(view, "Replace with your own action", Snackbar.*LENGTH\_LONG*)  
 .setAnchorView(R.id.*fab*)  
 .setAction("Action", null).show();  
 }  
 });  
 }  
  
 @Override  
 public boolean onCreateOptionsMenu(Menu menu) {  
 // Inflate the menu; this adds items to the action bar if it is present.  
 getMenuInflater().inflate(R.menu.*menu\_main*, menu);  
 return true;  
 }  
  
 @Override  
 public boolean onOptionsItemSelected(MenuItem item) {  
 // Handle action bar item clicks here. The action bar will  
 // automatically handle clicks on the Home/Up button, so long  
 // as you specify a parent activity in AndroidManifest.xml.  
 int id = item.getItemId();  
  
 //noinspection SimplifiableIfStatement  
 if (id == R.id.*action\_settings*) {  
 return true;  
 }  
 else if (id==R.id.*si*){  
 Intent i=new Intent(getApplicationContext(),MainActivity2.class);  
 startActivity(i);  
 } else if (id==R.id.*ci*) {  
 Intent intt=new Intent(getApplicationContext(),MainActivity3.class);  
 startActivity(intt);  
  
 }  
 return super.onOptionsItemSelected(item);  
 }  
  
 @Override  
 public boolean onSupportNavigateUp() {  
 NavController navController = Navigation.*findNavController*(this, R.id.*nav\_host\_fragment\_content\_main*);  
 return NavigationUI.*navigateUp*(navController, appBarConfiguration)  
 || super.onSupportNavigateUp();  
 }  
}

[MainActivity.java](mailto:MainActivity@.java)

package com.example.menu1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity2 extends AppCompatActivity {  
 Button b1;  
 EditText e1,e2,e3,e4;  
 TextView t;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
 b1=(Button) findViewById(R.id.*l1*);  
 e1=(EditText) findViewById(R.id.*h1*);  
 e2=(EditText) findViewById(R.id.*h2*);  
 e3=(EditText) findViewById(R.id.*h3*);  
 t=(TextView) findViewById(R.id.*k1*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String n1 = e1.getText().toString();  
 String n2 = e2.getText().toString();  
 String n3 = e3.getText().toString();  
 int a = Integer.*parseInt*(n1);  
 int b = Integer.*parseInt*(n2);  
 int c = Integer.*parseInt*(n3);  
 int s = (a \* b \* c) / 100;  
 t.setText(Integer.*toString*(s));  
 }  
 });  
 }

activity\_main2.java

<?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=".MainActivity2">  
  
 <TextView  
 android:id="@+id/D1"  
 android:layout\_width="359dp"  
 android:layout\_height="69dp"  
 android:text="SIMPLE INTEREST"  
 android:textAlignment="center"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.06" />  
  
 <TextView  
 android:id="@+id/F1"  
 android:layout\_width="206dp"  
 android:layout\_height="62dp"  
 android:text=" PRINCIPAL AMT:"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.14"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.25" />  
  
 <TextView  
 android:id="@+id/F2"  
 android:layout\_width="206dp"  
 android:layout\_height="62dp"  
 android:text="INTEREST RATE:"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.141"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.379" />  
  
 <TextView  
 android:id="@+id/F3"  
 android:layout\_width="206dp"  
 android:layout\_height="62dp"  
 android:text="TIME IN YEARS:"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.141"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.515" />  
  
 <TextView  
 android:id="@+id/k1"  
 android:layout\_width="141dp"  
 android:layout\_height="76dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.54"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.861" />  
  
 <Button  
 android:id="@+id/l1"  
 android:layout\_width="184dp"  
 android:layout\_height="80dp"  
 android:text="SIMPLE INTEREST"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.541"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.683" />  
  
 <EditText  
 android:id="@+id/h1"  
 android:layout\_width="132dp"  
 android:layout\_height="53dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.906"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.246" />  
  
 <EditText  
 android:id="@+id/h2"  
 android:layout\_width="132dp"  
 android:layout\_height="53dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.906"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.374" />  
  
 <EditText  
 android:id="@+id/h3"  
 android:layout\_width="132dp"  
 android:layout\_height="53dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.906"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity3.java

package com.example.menu1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity3 extends AppCompatActivity {  
 EditText e1,e2,e3;  
 Button b2;  
 TextView t1;  
 String n1,n2,n3;  
 int a,b,c;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main3*);  
 b2=(Button) findViewById(R.id.*l1*);  
 e1=(EditText) findViewById(R.id.*h1*);  
 e2=(EditText) findViewById(R.id.*h2*);  
 e3=(EditText) findViewById(R.id.*h3*);  
 t1=(TextView) findViewById(R.id.*k1*);  
 b2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String n1 = e1.getText().toString();  
 String n2 = e2.getText().toString();  
 String n3 = e3.getText().toString();  
 int a = Integer.*parseInt*(n1);  
 int b = Integer.*parseInt*(n2);  
 int c = Integer.*parseInt*(n3);  
 int s = a\*(1+(b/100))^c;  
 t1.setText(Integer.*toString*(s));  
 }  
 });  
 }  
}

activity\_main3.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=".MainActivity2">  
  
 <TextView  
 android:id="@+id/D1"  
 android:layout\_width="359dp"  
 android:layout\_height="69dp"  
 android:text="COMPOUND INTEREST"  
 android:textAlignment="center"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.06" />  
  
 <TextView  
 android:id="@+id/F1"  
 android:layout\_width="206dp"  
 android:layout\_height="62dp"  
 android:text=" PRINCIPAL AMT:"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.14"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.25" />  
  
 <TextView  
 android:id="@+id/F2"  
 android:layout\_width="206dp"  
 android:layout\_height="62dp"  
 android:text="INTEREST RATE:"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.141"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.379" />  
  
 <TextView  
 android:id="@+id/F3"  
 android:layout\_width="206dp"  
 android:layout\_height="62dp"  
 android:text="TIME IN YEARS:"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.141"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.515" />  
  
 <TextView  
 android:id="@+id/k1"  
 android:layout\_width="141dp"  
 android:layout\_height="76dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.54"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.861" />  
  
 <Button  
 android:id="@+id/l1"  
 android:layout\_width="184dp"  
 android:layout\_height="80dp"  
 android:text="COMPOUND INTEREST"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.541"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.683" />  
  
 <EditText  
 android:id="@+id/h1"  
 android:layout\_width="132dp"  
 android:layout\_height="53dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.906"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.246" />  
  
 <EditText  
 android:id="@+id/h2"  
 android:layout\_width="132dp"  
 android:layout\_height="53dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.906"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.374" />  
  
 <EditText  
 android:id="@+id/h3"  
 android:layout\_width="132dp"  
 android:layout\_height="53dp"  
 android:ems="10"  
 android:inputType="text"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.906"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

OUTPUT:





