Q12 Percentage

#First Fragment.java

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import androidx.annotation.NonNull;

import androidx.fragment.app.Fragment;

import androidx.navigation.fragment.NavHostFragment;

import com.abhishek.percentage.databinding.FragmentFirstBinding;

public class FirstFragment extends Fragment {

    private FragmentFirstBinding binding;

    @Override

    public View onCreateView(

            LayoutInflater inflater, ViewGroup container,

            Bundle savedInstanceState

    ) {

        binding = FragmentFirstBinding.inflate(inflater, container, false);

        return binding.getRoot();

    }

    public void onViewCreated(@NonNull View view, Bundle savedInstanceState) {

        super.onViewCreated(view, savedInstanceState);

        binding.buttonFirst.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                NavHostFragment.findNavController(FirstFragment.this)

                        .navigate(R.id.action\_FirstFragment\_to\_SecondFragment);

            }

        });

    }

    @Override

    public void onDestroyView() {

        super.onDestroyView();

        binding = null;

    }

}

#Second Fragment.java

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import androidx.annotation.NonNull;

import androidx.fragment.app.Fragment;

import androidx.navigation.fragment.NavHostFragment;

import com.abhishek.percentage.databinding.FragmentSecondBinding;

public class SecondFragment extends Fragment {

    private FragmentSecondBinding binding;

    @Override

    public View onCreateView(

            LayoutInflater inflater, ViewGroup container,

            Bundle savedInstanceState

    ) {

        binding = FragmentSecondBinding.inflate(inflater, container, false);

        return binding.getRoot();

    }

    public void onViewCreated(@NonNull View view, Bundle savedInstanceState) {

        super.onViewCreated(view, savedInstanceState);

        binding.buttonSecond.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                NavHostFragment.findNavController(SecondFragment.this)

                        .navigate(R.id.action\_SecondFragment\_to\_FirstFragment);

            }

        });

    }

    @Override

    public void onDestroyView() {

        super.onDestroyView();

        binding = null;

    }

}

#MainActivity.java

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private EditText editTextSubject1, editTextSubject2, editTextSubject3;

    private Button calculateButton;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        editTextSubject1 = findViewById(R.id.editTextSubject1);

        editTextSubject2 = findViewById(R.id.editTextSubject2);

        editTextSubject3 = findViewById(R.id.editTextSubject3);

        calculateButton = findViewById(R.id.calculateButton);

        calculateButton.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                int subject1Marks = Integer.parseInt(editTextSubject1.getText().toString());

                int subject2Marks = Integer.parseInt(editTextSubject2.getText().toString());

                int subject3Marks = Integer.parseInt(editTextSubject3.getText().toString());

                int totalMarks = subject1Marks + subject2Marks + subject3Marks;

                double percentage = (totalMarks / 3.0);

                Intent intent = new Intent(MainActivity.this, SecondActivity.class);

                intent.putExtra("PERCENTAGE", percentage);

                startActivity(intent);

            }

        });

    }

}

#SecondActivity.java

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {

    private TextView textViewPercentage;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_second);

        textViewPercentage = findViewById(R.id.textViewPercentage);

        double percentage = getIntent().getDoubleExtra("PERCENTAGE", 0);

        textViewPercentage.setText(percentage + "%");

    }

}

#First Fragment.xml

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

<androidx.core.widget.NestedScrollView 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=".FirstFragment">

    <androidx.constraintlayout.widget.ConstraintLayout

        android:layout\_width="match\_parent"

        android:layout\_height="match\_parent"

        android:padding="16dp">

        <Button

            android:id="@+id/button\_first"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/next"

            app:layout\_constraintBottom\_toTopOf="@id/textview\_first"

            app:layout\_constraintEnd\_toEndOf="parent"

            app:layout\_constraintStart\_toStartOf="parent"

            app:layout\_constraintTop\_toTopOf="parent" />

        <TextView

            android:id="@+id/textview\_first"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:layout\_marginTop="16dp"

            android:text="@string/lorem\_ipsum"

            app:layout\_constraintBottom\_toBottomOf="parent"

            app:layout\_constraintEnd\_toEndOf="parent"

            app:layout\_constraintStart\_toStartOf="parent"

            app:layout\_constraintTop\_toBottomOf="@id/button\_first" />

    </androidx.constraintlayout.widget.ConstraintLayout>

</androidx.core.widget.NestedScrollView>

#Second Fragment.xml

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

<androidx.core.widget.NestedScrollView 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=".SecondFragment">

    <androidx.constraintlayout.widget.ConstraintLayout

        android:layout\_width="match\_parent"

        android:layout\_height="match\_parent"

        android:padding="16dp">

        <Button

            android:id="@+id/button\_second"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/previous"

            app:layout\_constraintBottom\_toTopOf="@id/textview\_second"

            app:layout\_constraintEnd\_toEndOf="parent"

            app:layout\_constraintStart\_toStartOf="parent"

            app:layout\_constraintTop\_toTopOf="parent" />

        <TextView

            android:id="@+id/textview\_second"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:layout\_marginTop="16dp"

            android:text="@string/lorem\_ipsum"

            app:layout\_constraintBottom\_toBottomOf="parent"

            app:layout\_constraintEnd\_toEndOf="parent"

            app:layout\_constraintStart\_toStartOf="parent"

            app:layout\_constraintTop\_toBottomOf="@id/button\_second" />

    </androidx.constraintlayout.widget.ConstraintLayout>

</androidx.core.widget.NestedScrollView>

#MainActivity.xml

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

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

    android:layout\_width="match\_parent"

    android:layout\_height="match\_parent"

    android:orientation="vertical"

    android:gravity="center">

    <Button

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:text="Percentage"

        android:textSize="20dp">

    </Button>

    <TextView

        android:id="@+id/textViewPercentage"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:paddingTop="30dp"

        android:textSize="30dp"

        android:text="0%"/>

</LinearLayout>

#SecondActivity.xml

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

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

    android:layout\_width="match\_parent"

    android:layout\_height="match\_parent">

    <EditText

        android:id="@+id/editTextSubject1"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:hint="Enter Subject 1 Marks"/>

    <EditText

        android:id="@+id/editTextSubject2"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_below="@id/editTextSubject1"

        android:hint="Enter Subject 2 Marks"/>

    <EditText

        android:id="@+id/editTextSubject3"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_below="@id/editTextSubject2"

        android:hint="Enter Subject 3 Marks"/>

    <Button

        android:id="@+id/calculateButton"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_below="@id/editTextSubject3"

        android:text="Calculate Percentage"/>

</RelativeLayout>