

Practical No 03

Program:

activity_main.xml

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

<androidx.coordinatorlayout.widget.CoordinatorLayout
    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"
    android:fitsSystemWindows="true"
    tools:context=".MainActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fitsSystemWindows="true"
        android:theme="@style/Theme.ImlicitDemo.AppBarOverlay">

        <com.google.android.material.appbar.MaterialToolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize" />

    </com.google.android.material.appbar.AppBarLayout>

    <include layout="@layout/content_main" />

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"

    android:layout_gravity="bottom|end"

    android:layout_marginEnd="@dimen/fab_margin"

    android:layout_marginBottom="16dp"

    app:srcCompat="@android:drawable/ic_dialog_email" />
```

```
</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

content_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"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    app:layout_behavior="@string/appbar_scrolling_view_behavior">
```

```
<fragment

    android:id="@+id/nav_host_fragment_content_main"

    android:name="androidx.navigation.fragment.NavHostFragment"

    android:layout_width="0dp"

    android:layout_height="0dp"

    app:defaultNavHost="true"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:navGraph="@navigation/nav_graph" />
```

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

fragment_first.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/open"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="364dp"
    android:text="@string/next"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
    android:id="@+id/url"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="208dp"
    android:ems="10"
    android:hint="ENter URL"
    android:inputType="textUri"
    android:minHeight="48dp"
```

```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
android:importantForAutofill="no"
app:layout_constraintHorizontal_bias="0.497"/>
```

```
<Button
```

```
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Open URL"
    app:layout_constraintBottom_toTopOf="@+id/open"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/url"
    app:layout_constraintHorizontal_bias="0.5"/>
```

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

```
</androidx.core.widget.NestedScrollView>
```

fragment_second.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="50dp">
```

```
<Button
```

```
    android:id="@+id/button_second"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/previous"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="1.0" />
```

```
<TextView
```

```
    android:id="@+id/textview_second"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="22dp"
    android:text="This is second"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintBottom_toTopOf="@+id/button_second"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.476"
    app:layout_constraintStart_toStartOf="parent" />
```

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

```
</androidx.core.widget.NestedScrollView>
```

MainActivity.java

```
package com.example.imlicitdemo;
```

```
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.implicitdemo.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;
        }

        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();
    }
}

```

FirstFragment.java

```

package com.example.imlicitdemo;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import android.widget.Toolbar;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;

```



```
import androidx.navigation.fragment.NavHostFragment;
```

```
import com.example.implicitdemo.databinding.FragmentFirstBinding;
```

```
public class FirstFragment extends Fragment {
```

```
    Button button;
```

```
    EditText url;
```

```
    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.open.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View view) {
```

```
                NavHostFragment.findNavController(FirstFragment.this)
```

```
                    .navigate(R.id.action_FirstFragment_to_SecondFragment);
```

```
            }
```

```
        });
```

```
button = view.findViewById(R.id.button);
url = view.findViewById(R.id.url);

button.setOnClickListener(view1 -> {
    String urlText = url.getText().toString();
    Toast.makeText(getActivity(),urlText,Toast.LENGTH_SHORT).show();

    Uri webpage = Uri.parse(urlText);
    Intent intent = new Intent(Intent.ACTION_VIEW);
    intent.setData(webpage);
    startActivity(intent);
});
```

```
}
```

```
@Override
```

```
public void onDestroyView() {
    super.onDestroyView();
    binding = null;
}
```

```
}
```

SecondFragment.java

```
package com.example.implicitdemo;
```

```
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.example.implicitdemo.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;  
}  
  
}
```