Отчет по практической работе 1.

Вариант 1.

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Экран MainActivity.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.drawerlayout.widget.DrawerLayout  
 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:id="@+id/drawer\_layout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 android:fitsSystemWindows="true">  
  
 <androidx.coordinatorlayout.widget.CoordinatorLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 >  
  
  
 <androidx.fragment.app.FragmentContainerView  
 android:id="@+id/navFragment"  
 android:name="androidx.navigation.fragment.NavHostFragment"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 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/routes" />  
  
 <com.google.android.material.appbar.MaterialToolbar  
  
 android:id="@+id/toolbar"  
 android:layout\_width="match\_parent"  
 android:layout\_height="?attr/actionBarSize"  
 app:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"  
 android:background="@color/black"/>  
  
 </androidx.coordinatorlayout.widget.CoordinatorLayout>  
  
 <com.google.android.material.navigation.NavigationView  
  
  
 android:id="@+id/nav\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="match\_parent"  
 android:layout\_gravity="start"  
 android:fitsSystemWindows="true"  
 app:menu="@menu/drawer\_menu"/>  
  
</androidx.drawerlayout.widget.DrawerLayout>

MainActivity.kt

package com.example.task1  
  
import android.os.Bundle  
import androidx.appcompat.app.ActionBarDrawerToggle  
import androidx.appcompat.app.AppCompatActivity  
import androidx.appcompat.widget.Toolbar  
import androidx.drawerlayout.widget.DrawerLayout  
import androidx.navigation.NavController  
import androidx.navigation.findNavController  
import androidx.navigation.fragment.NavHostFragment  
import androidx.navigation.ui.AppBarConfiguration  
import androidx.navigation.ui.setupWithNavController  
import com.google.android.material.navigation.NavigationView  
import androidx.navigation.ui.setupActionBarWithNavController  
  
class MainActivity : AppCompatActivity() {  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
  
 val host: NavHostFragment = *supportFragmentManager*.findFragmentById(R.id.*navFragment*) as NavHostFragment? ?: return  
 val navController = host.navController  
  
 val sideBar = findViewById<NavigationView>(R.id.*nav\_view*)  
 sideBar?.*setupWithNavController*(navController)  
  
 val drawerLayout = findViewById<DrawerLayout>(R.id.*drawer\_layout*)  
  
 val appBarConfiguration = *AppBarConfiguration*(navController.graph, drawerLayout)  
  
 val toolbar = findViewById<Toolbar>(R.id.*toolbar*)  
 setSupportActionBar(toolbar)  
  
 val actionBar = *supportActionBar* actionBar?.setDisplayHomeAsUpEnabled(true)  
  
 *setupActionBarWithNavController*(navController, appBarConfiguration)  
  
  
 val toggle = ActionBarDrawerToggle(this, drawerLayout, toolbar, 0,0)  
 drawerLayout.addDrawerListener(toggle)  
 toggle.syncState()  
 }  
  
 }

fragment1.xml

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".Fragment1"  
 android:orientation="vertical">  
  
 <ListView  
 android:layout\_marginTop="200px"  
 android:id="@+id/listView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="1"  
 android:divider="@android:color/darker\_gray"  
 android:dividerHeight="1dp" />  
  
  
 <EditText  
 android:id="@+id/editTextTask"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Введите задание" />  
  
  
 <Button  
 android:id="@+id/buttonAddTask"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Добавить задание" />  
  
</LinearLayout>

Fragment1.kt

private val tasks = *mutableListOf*<String>()  
private lateinit var taskAdapter: TaskAdapter  
  
override fun onCreateView(  
 inflater: LayoutInflater, container: ViewGroup?,  
 savedInstanceState: Bundle?  
): View? {  
 binding = Fragment1Binding.inflate(inflater, container, false)  
  
 taskAdapter = TaskAdapter(requireContext(), tasks)  
 binding.listView.*adapter* = taskAdapter  
  
 binding.listView.setOnItemClickListener **{** parent, view, position, id **->** val selectedTask = tasks[position]  
  
 val bundle = Bundle().*apply* **{** putString("selectedTask", selectedTask)  
 **}** *findNavController*().navigate(  
 R.id.*action\_fragment1\_to\_fragment22*,  
 bundle  
 )  
 **}** binding.buttonAddTask.setOnClickListener **{** val taskDescription = binding.editTextTask.*text*.toString()  
 if (taskDescription.*isNotBlank*()) {  
 tasks.add(taskDescription)  
 taskAdapter.notifyDataSetChanged()  
 binding.editTextTask.*text*.clear()  
 }  
 **}** return binding.*root*}

fragment2.xml

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".Fragment2">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <EditText  
 android:id="@+id/editTextAdditionalInfo"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Введите дополнительную информацию"  
 android:layout\_marginTop="200px"/>  
  
  
 <Button  
 android:id="@+id/buttonSave"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Сохранить"  
 android:layout\_marginTop="300px"/>  
</FrameLayout>

Fragment2.kt

private lateinit var binding: Fragment2Binding  
private lateinit var sharedPreferences: SharedPreferences  
  
override fun onCreateView(  
 inflater: LayoutInflater, container: ViewGroup?,  
 savedInstanceState: Bundle?  
): View? {  
 binding = Fragment2Binding.inflate(inflater, container, false)  
 sharedPreferences = requireActivity().getPreferences(Context.*MODE\_PRIVATE*)  
  
 binding.buttonSave.setOnClickListener **{** // Get the text from the EditText  
 val additionalInfo = binding.editTextAdditionalInfo.*text*.toString()  
  
 // Save the information to SharedPreferences  
 saveAdditionalInfo(additionalInfo)  
  
 val navController = NavHostFragment.findNavController(this)  
 navController.navigateUp()  
 **}** return inflater.inflate(R.layout.*fragment\_2*, container, false)  
}  
  
  
private fun saveAdditionalInfo(additionalInfo: String) {  
 // Use SharedPreferences.Editor to save the information  
 val editor = sharedPreferences.edit()  
 editor.putString(KEY\_ADDITIONAL\_INFO, additionalInfo)  
 editor.apply()  
}

routes.xml

<?xml version="1.0" encoding="utf-8"?>  
 <navigation 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:id="@+id/routes"  
 app:startDestination="@id/fragment1">  
  
 <fragment  
 android:id="@+id/fragment1"  
 android:name="com.example.task1.Fragment1"  
 android:label="fragment\_1"  
 tools:layout="@layout/fragment\_1" >  
 <action  
 android:id="@+id/action\_fragment1\_to\_fragment22"  
 app:destination="@id/fragment2" />  
 <action  
 android:id="@+id/action\_fragment2\_to\_fragment1"  
 app:destination="@id/fragment2" />  
 <action  
 android:id="@+id/action\_fragment1\_to\_fragment32"  
 app:destination="@id/fragment3" />  
 </fragment>  
 <fragment  
 android:id="@+id/fragment2"  
 android:name="com.example.task1.Fragment2"  
 android:label="fragment\_2"  
 tools:layout="@layout/fragment\_2" />  
 <fragment  
 android:id="@+id/fragment3"  
 android:name="com.example.task1.Fragment3"  
 android:label="fragment\_3"  
 tools:layout="@layout/fragment\_3" />  
 <fragment  
 android:id="@+id/fragment4"  
 android:name="com.example.task1.Fragment4"  
 android:label="fragment\_4"  
 tools:layout="@layout/fragment\_4" />  
 </navigation>

Drawermenu.xml

<?xml version="1.0" encoding="utf-8"?>  
<menu xmlns:android="http://schemas.android.com/apk/res/android">  
  
 <item  
 android:id="@+id/fragment1"  
 android:title="Fragment 1"  
 android:icon="@drawable/ic\_launcher\_foreground"  
 android:menuCategory="secondary"/>  
  
 <item  
 android:id="@+id/fragment2"  
 android:title="Fragment 2"  
 android:icon="@drawable/ic\_launcher\_foreground"  
 android:menuCategory="secondary"/>  
 <item  
 android:id="@+id/fragment3"  
 android:title="Fragment 3"  
 android:icon="@drawable/ic\_launcher\_foreground"  
 android:menuCategory="secondary"/>  
 <item  
 android:id="@+id/fragment4"  
 android:title="Fragment 4"  
 android:icon="@drawable/ic\_launcher\_foreground"  
 android:menuCategory="secondary"/>  
  
</menu>

Taskadapter.kt

package com.example.task1  
  
import android.content.Context  
import android.view.LayoutInflater  
import android.view.View  
import android.view.ViewGroup  
import android.widget.ArrayAdapter  
import android.widget.TextView  
  
class TaskAdapter(context: Context, tasks: List<String>) :  
 ArrayAdapter<String>(context, R.layout.*list\_item\_task*, tasks) {  
  
 override fun getView(position: Int, convertView: View?, parent: ViewGroup): View {  
 val task = getItem(position) ?: ""  
 val view = convertView ?: LayoutInflater.from(*context*).inflate(R.layout.*list\_item\_task*, parent, false)  
  
 val textViewTask: TextView = view.findViewById(R.id.*textViewTask*)  
 textViewTask.*text* = task  
  
 return view  
 }  
}

Вывод : программа успешно работает.