

ПРАКТИЧЕСКАЯ №10

1.Подключение библиотек:

```
41 dependencies {
42     implementation (libs.androidx.lifecycle.viewmodel.ktx)
43     implementation (libs.androidx.lifecycle.livedata.ktx)
44     implementation(libs.androidx.core.ktx)
45     implementation(libs.androidx.appcompat)
46     implementation(libs.material)
47     implementation(libs.androidx.activity)
48     implementation(libs.androidx.constraintlayout)
49     testImplementation(libs.junit)
50     androidTestImplementation(libs.androidx.junit)
51     androidTestImplementation(libs.androidx.espresso.core)
52 }
```

2.Создание фрагментов

a.BlackFragment.kt

```
<> class BlankFragment : Fragment() {
    private lateinit var sharedViewModel: SharedViewModel

    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        sharedViewModel = ViewModelProvider(requireActivity()).get(SharedViewModel::class.java)
        val view = inflater.inflate(R.layout.fragment_blank, container, attachToRoot: false)

        val button = view.findViewById<Button>(R.id.button_send)
        button.setOnClickListener {
            sharedViewModel.selectedData.value = "Привет из Эстонии"
        }

        return view
    }
}
```

b.BlackFragment2.kt

```
> import ...

class BlankFragment2 : Fragment() {
    private lateinit var sharedViewModel: SharedViewModel

    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {
        sharedViewModel = ViewModelProvider(requireActivity()).get(SharedViewModel::class.java)
        val view = inflater.inflate(R.layout.fragment_blank2, container, attachToRoot: false)

        sharedViewModel.selectedData.observe(viewLifecycleOwner, Observer { data ->
            val textView = view.findViewById<TextView>(R.id.textView_received)
            textView.text = data
        })

        return view
    }
}
```

c.fragment.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <Button
        android:id="@+id/button_send"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Отправить данные" />
</LinearLayout>
```

d.fragment2.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView_received"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Полученные данные" />
</LinearLayout>
```

3.activity_main.xml

```
MainActivity.kt  build.gradle.kts (:app)  BlankFragment2.kt
1  <?xml version="1.0" encoding="UTF-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout
3      xmlns:android="http://schemas.android.com/apk/res/android"
4      xmlns:app="http://schemas.android.com/apk/res-auto"
5      xmlns:tools="http://schemas.android.com/tools"
6      android:id="@+id/main"
7      android:layout_width="match_parent"
8      android:layout_height="match_parent"
9      tools:context=".MainActivity">
10
11      <TextView
12          android:id="@+id/textView"
13          android:layout_width="wrap_content"
14          android:layout_height="wrap_content"
15          android:text="Аноха"
16          app:layout_constraintBottom_toBottomOf="parent"
17          app:layout_constraintEnd_toEndOf="parent"
18          app:layout_constraintStart_toStartOf="parent"
19          app:layout_constraintTop_toTopOf="parent" />
20
21      <FrameLayout
22          android:id="@+id/frame1"
23          android:layout_width="409dp"
24          android:layout_height="354dp"
25          android:layout_marginStart="1dp"
26          android:layout_marginTop="1dp"
27          android:layout_marginBottom="1dp"
28          app:layout_constraintBottom_toTopOf="@+id/textView"
29          app:layout_constraintStart_toStartOf="parent"
30          app:layout_constraintTop_toTopOf="parent">
31      </FrameLayout>
32
33      <FrameLayout
34          android:id="@+id/frame2"
35          android:layout_width="409dp"
36          android:layout_height="354dp"
37          android:layout_marginTop="1dp"
38          android:layout_marginEnd="1dp"
39          app:layout_constraintBottom_toBottomOf="parent"
40          app:layout_constraintEnd_toEndOf="parent"
41          app:layout_constraintTop_toBottomOf="@+id/textView">
42      </FrameLayout>
43  </androidx.constraintlayout.widget.ConstraintLayout>
```

5.MainActivity.kt

```
class MainActivity : AppCompatActivity() {
    lateinit var binding: ActivityMainBinding
    private lateinit var sharedViewModel: SharedViewModel

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)

        sharedViewModel = ViewModelProvider(owner: this).get(SharedViewModel::class.java)

        openFragment(BlankFragment(), R.id.frame1)
        openFragment(BlankFragment2(), R.id.frame2)
    }

    private fun openFragment(f: Fragment, idHolder: Int) {
        supportFragmentManager
            .beginTransaction()
            .replace(idHolder, f)
            .commit()
    }
}
```

6.viewmodel

```
class SViewModel : ViewModel() {
    val selectedData = MutableLiveData<String>()
}
```

7. работа приложения

