

```
<?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"
    android:id="@+id/main">
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="#FCC1FF"/>
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclerView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>
    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_margin="16dp"
        android:src="@drawable/baseline_add_24" />
</RelativeLayout>
```

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="#FCC1FF"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.practice14

import android.media.RouteListingPreference
import android.os.Bundle
import android.widget.EditText
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton

class MainActivity : AppCompatActivity() {
    private lateinit var recyclerView: RecyclerView
    private lateinit var fab: FloatingActionButton
    private val items: MutableList<RouteListingPreference.Item> = mutableListOf()
    private lateinit var adapter: ItemAdapter
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
    }
}
```

```

</> activity_main.xml    </> item_rec.xml    MainActivity.kt  ×  ItemAdapter.kt
15      class MainActivity : AppCompatActivity() {
21          override fun onCreate(savedInstanceState: Bundle?) {
23              enableEdgeToEdge()
24              setContentView(R.layout.activity_main)
25              ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) {
26                  v, insets ->
27                      val systemBars =
28                          insets.getInsets(WindowInsetsCompat.Type.systemBars())
29                      v.setPadding(systemBars.left, systemBars.top, systemBars.right,
30                          systemBars.bottom)
31                      insets
32              }
33              recyclerView = findViewById(R.id.recyclerView)
34              fab = findViewById(R.id.fab)
35              adapter = ItemAdapter(items)
36              recyclerView.layoutManager = LinearLayoutManager( context: this)
37              recyclerView.adapter = adapter
38              adapter = ItemAdapter(items)
39              recyclerView.layoutManager = LinearLayoutManager( context: this)
40              recyclerView.adapter = adapter
41              fab.setOnClickListener {
42                  showInputDialog()
43              }
44          }
45          private fun showInputDialog() {
46              val builder = AlertDialog.Builder( context: this)
47              builder.setTitle("Добавить элемент")
48              val input = EditText( context: this)
49              builder.setView(input)
50              builder.setPositiveButton( text: "Добавить") { dialog, _ ->
51                  val text = input.text.toString()
52                  if (text.isNotEmpty()) {
53                      items.add(error(text))
54                      adapter.notifyItemInserted( position: items.size - 1)
55                  }
56                  dialog.dismiss()
57              }
58              builder.setNegativeButton( text: "Отмена") { dialog, _ -> dialog.cancel() }
59              builder.show()
60          }
61      }

```

```

</> activity_main.xml    </> item_rec.xml    MainActivity.kt  ×  ItemAdapter.kt
1      package com.example.practice14
2
3      import android.media.RouteListingPreference
4      import android.view.LayoutInflater
5      import android.view.View
6      import android.view.ViewGroup
7      import android.widget.TextView
8      import androidx.recyclerview.widget.RecyclerView
9
10     class ItemAdapter (private val item: List<RouteListingPreference.Item>) :
11         RecyclerView.Adapter<ItemAdapter.ItemViewHolder>(){
12         class ItemViewHolder(view: View) : RecyclerView.ViewHolder(view) {
13             val textView : TextView = view.findViewById(R.id.txt1)
14         }
15         override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
16             ItemViewHolder {
17             val view =
18                 LayoutInflater.from(parent.context).inflate(R.layout.item_rec, parent, attachToRoot: false)
19             return ItemViewHolder(view)
20         }

```

```
21 override fun onBindViewHolder(holder: ItemViewHolder, position: Int) {  
22     holder.textView.text = item[position].routeId  
23 }  
24 override fun getItemCount(): Int {  
25     return item.size  
26 }  
27 }
```

