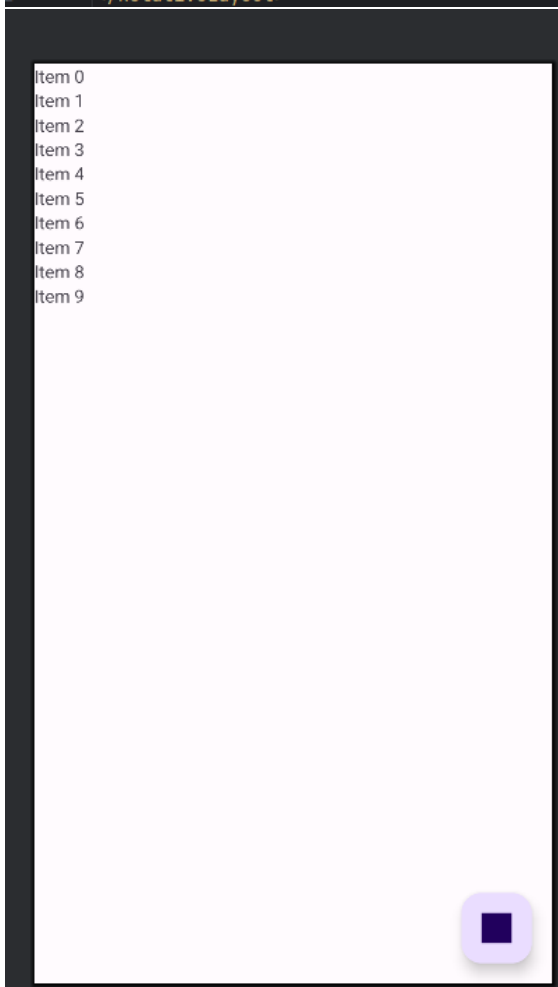


Практическая работа 14. Духаниной Яна ИС222

```
MainActivity.kt  </> activity_main.xml  x
1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:id="@+id/main"
4      android:layout_width="match_parent"
5      android:layout_height="match_parent"
6  >
7      <androidx.recyclerview.widget.RecyclerView
8          android:id="@+id/recyclerView"
9          android:layout_width="match_parent"
10         android:layout_height="match_parent"
11     />
12     <com.google.android.material.floatingactionbutton.FloatingActionButton
13         android:layout_width="wrap_content"
14         android:layout_height="wrap_content"
15         android:id="@+id/fab"
16         android:layout_alignParentEnd="true"
17         android:layout_alignParentBottom="true"
18         android:layout_margin="16sp"
19         android:src="@android:color/background_dark"
20     />
21 </RelativeLayout>
```

1.



2.

3. Создала файл item_rec.xml ,

MainActivity.kt </> item_rec.xml </> activity_main.xml

```
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="wrap_content"
9  >
10
11      <TextView
12          android:layout_width="0dp"
13          android:layout_height="64dp"
14          android:id="@+id/txt1"
15          android:layout_marginTop="16sp"
16          android:text="test"
17          android:textSize="36sp"
18          app:layout_constraintEnd_toEndOf="parent"
19          app:layout_constraintStart_toStartOf="parent"
20          app:layout_constraintTop_toTopOf="parent" |
21      />
22
23  </androidx.constraintlayout.widget.ConstraintLayout>
```

test

4.

```

MainActivity.kt  x  <> item_rec.xml  <> activity_main.xml

1  package com.example.lb14
2
3  > import ...
17
18  <> class MainActivity : AppCompatActivity() {
19      private lateinit var recyclerView: RecyclerView
20      private lateinit var fab: FloatingActionButton
21      private lateinit var adapter: ItemAdapter
22      private val items = mutableListOf<Item>()
23
24      override fun onCreate(savedInstanceState: Bundle?) {
25          super.onCreate(savedInstanceState)
26          enableEdgeToEdge()
27          setContentView(R.layout.activity_main)
28
29
30          ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
31              val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
32              v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
33              insets
34          }
35
36          recyclerView = findViewById(R.id.recyclerView)
37          fab = findViewById(R.id.fab)
38
39
40          adapter = ItemAdapter(items)
41          recyclerView.layoutManager = LinearLayoutManager(context, this)
42          recyclerView.adapter = adapter
43
44
45          fab.setOnClickListener {
46              showInputDialog()
47          }
48      }
49
50
51      private fun showInputDialog() {
52          val builder = AlertDialog.Builder(context, this)
53          builder.setTitle("Добавить элемент")
54          val input = EditText(context, this)
55          builder.setPositiveButton(text: "Добавить") { dialog, _ ->
56              builder.setPositiveButton(text: "Добавить") { dialog, _ ->
57                  adapter.notifyItemInserted(position: items.size - 1)
58              }
59              dialog.dismiss()
60          }
61          builder.setNegativeButton(text: "Отмена") { dialog, _ -> dialog.cancel() }
62          builder.setView(input) // Set the EditText as the view for the dialog
63          builder.show()
64      }
65
66
67      data class Item(
68          val text: String
69      )
70
71      // Adapter for the RecyclerView
72      class ItemAdapter(private val items: MutableList<Item>) :
73          RecyclerView.Adapter<ItemAdapter.ItemViewHolder>() {
74
75          class ItemViewHolder(view: View) : RecyclerView.ViewHolder(view) {
76              val textView: TextView = view.findViewById(R.id.txt1)
77          }
78
79          override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): ItemViewHolder {
80              val view =
81                  LayoutInflater.from(parent.context).inflate(R.layout.item_rec, parent, attachToRoot: false)
82              return ItemViewHolder(view)
83          }
84
85          override fun onBindViewHolder(holder: ItemViewHolder, position: Int) {
86              holder.textView.text = items[position].text
87          }
88
89          override fun getItemCount(): Int {
90              return items.size
91          }
92      }
93

```

5. Результат:



Добавить элемент

Отмена Добавить