

1.activitymain.xml

```

<?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">

    <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/img" />
</RelativeLayout>

```

2.создание нового класса

```

2
3 data class Item( val text: String)

```

3.Создание item_rec.xml для того как будет отображаться элементы списка

```

<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">

    <TextView
        android:id="@+id/txt1"
        android:layout_width="0dp"
        android:layout_height="64dp"
        android:layout_marginTop="16dp"
        android:text="Текст"
        android:textSize="36sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

4.класс адаптера

```
1  > import ...
2
3
4
5
6
7
8
9  class ItemAdapter(private val item: List<Item>) :
10      RecyclerView.Adapter<ItemAdapter.ItemViewHolder>() {
11
12      class ItemViewHolder(view: View) : RecyclerView.ViewHolder(view) {
13          val textView: TextView = view.findViewById(R.id.txt1)
14      }
15
16      override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): ItemViewHolder {
17          val view = LayoutInflater.from(parent.context).inflate(R.layout.item_rec, parent, attachToRoot: false)
18          return ItemViewHolder(view)
19      }
20
21      override fun onBindViewHolder(holder: ItemViewHolder, position: Int) {
22          holder.textView.text = item[position].text
23      }
24
25      override fun getItemCount(): Int {
26          return item.size
27      }
28  }
```

5.MainActivity.kt

```
18  <> class MainActivity : AppCompatActivity() {
19      private lateinit var recyclerView: RecyclerView
20      private lateinit var fab: FloatingActionButton
21      private val items: MutableList<Item> = mutableListOf()
22      private lateinit var adapter: ItemAdapter
23
24      override fun onCreate(savedInstanceState: Bundle?) {
25          super.onCreate(savedInstanceState)
26          setContentView(R.layout.activity_main)
27
28          recyclerView = findViewById(R.id.recyclerView)
29          fab = findViewById(R.id.fab)
30
31          adapter = ItemAdapter(items)
32          recyclerView.layoutManager = LinearLayoutManager(context, this)
33          recyclerView.adapter = adapter
34
35          fab.setOnClickListener {
36              showInputDialog()
37          }
38      }
39
40      private fun showInputDialog() {
41          val builder = AlertDialog.Builder(context, this)
42          builder.setTitle("Добавить элемент")
43          val input = EditText(context, this)
44          builder.setView(input)
45
46          builder.setPositiveButton(text: "Добавить") { dialog, _ ->
47              val text = input.text.toString()
48              if (text.isNotEmpty()) {
49                  items.add(Item(text))
50                  adapter.notifyItemInserted(position: items.size - 1)
51              }
52              dialog.dismiss()
53          }
54
55          builder.setNegativeButton(text: "Отмена") { dialog, _ -> dialog.cancel() }
56          builder.show()
57      }
58  }
```

6. Работа приложения

