Практическая работа 14

1.Activity_main.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:background="@drawable/muscle"
    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="67dp"
        android:layout_height="66dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="16dp"
        android:layout_marginLeft="16dp"
        android:layout_marginTop="16dp"
        android:layout_marginEnd="16dp"
        android:layout_marginRight="16dp"
        android:layout_marginBottom="16dp" />
</RelativeLayout>
```

2.Item.kt

```
data class Item(
    val text : String
)
```

3.item_rec.xml

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

4. ItemAdapter.kt

```
class ItemAdapter(private val item: List<Item>) :
    RecyclerView.Adapter<ItemAdapter.ItemViewHolder>(){
    class ItemViewHolder(view: View) : RecyclerView.ViewHolder(view) {
        val textView : TextView = view.findViewById(R.id.txt1)
    }
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
            ItemViewHolder {
        val view =
            LayoutInflater.from(parent.context).inflate(R.layout.item_rec,
parent, false)
        return ItemViewHolder(view)
    }
    override fun onBindViewHolder(holder: ItemViewHolder, position: Int) {
        holder.textView.text = item[position].text
    }
    override fun getItemCount(): Int {
        return item.size
    }
}
```

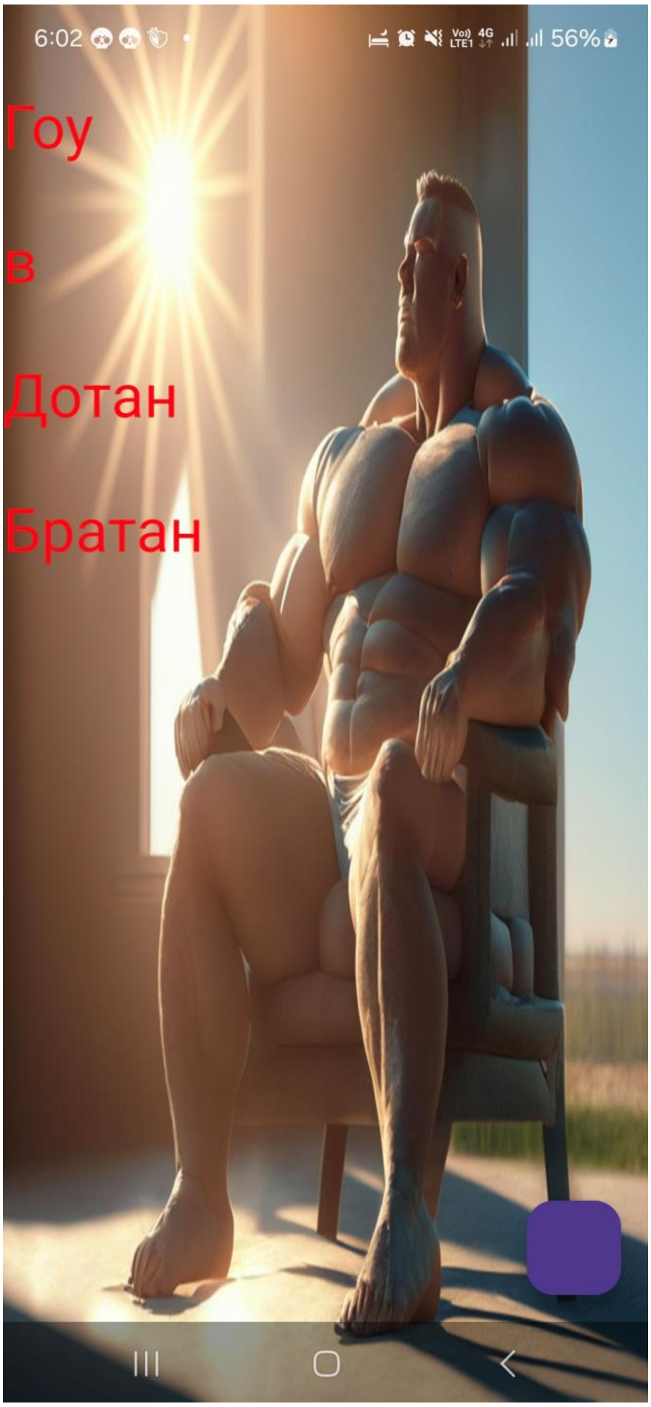
5. MainActivity.kt

```
class MainActivity : AppCompatActivity() {
    private lateinit var recyclerView: RecyclerView
    private lateinit var fab: FloatingActionButton
    private val items: MutableList<Item> = mutableListOf()

    private lateinit var adapter: ItemAdapter
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) {
v, insets ->
            val systemBars =
                insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(
                systemBars.left, systemBars.top, systemBars.right,
                systemBars.bottom
            )
            insets
        }
        recyclerView = findViewById(R.id.recyclerView)
        fab = findViewById(R.id.fab)
        adapter = ItemAdapter(items)
        recyclerView.layoutManager = LinearLayoutManager(this)
        recyclerView.adapter = adapter
        adapter = ItemAdapter(items)
        recyclerView.layoutManager = LinearLayoutManager(this) //
        recyclerView.adapter = adapter // Устанавливаем адаптер для
        fab.setOnClickListener {
            showInputDialog()
        }
    }
    private fun showInputDialog() {
        val builder = AlertDialog.Builder(this)
        builder.setTitle("Добавить элемент")
        val input = EditText(this)
        builder.setView(input)
        builder.setPositiveButton("Добавить") { dialog, _ ->
```

```
            val text = input.text.toString()
            if (text.isNotEmpty()) {
                items.add(Item(text))
                adapter.notifyItemInserted(items.size - 1)
            }
            dialog.dismiss()
        }
        builder.setNegativeButton("Отмена") { dialog, _ -> dialog.cancel() }
        builder.show()
    }
}
```

6.Результат



Гоу

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Дотан

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