**ViewBinding (Simpler View Access)**

ViewBinding is an alternative to findViewById() that **reduces boilerplate code**.

**How to Enable ViewBinding?**

✅ **Step 1:** Enable ViewBinding in build.gradle

android {

viewBinding {

enable = true

}

}

✅ **Step 2:** Use ViewBinding in an Activity

class MainActivity : AppCompatActivity() {

private lateinit var binding: ActivityMainBinding

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

binding = ActivityMainBinding.inflate(layoutInflater)

setContentView(binding.root)

binding.recyclerView.layoutManager = LinearLayoutManager(this)

val userList = listOf(

User("Alex", 23),

User("Daniel", 25),

User("Emma", 28)

)

val adapter = UserAdapter(userList)

binding.recyclerView.adapter = adapter

}

}

✅ **Step 3:** Use ViewBinding in RecyclerView Adapter

class UserAdapter(private val userList: List<User>) : RecyclerView.Adapter<UserAdapter.UserViewHolder>() {

class UserViewHolder(val binding: ItemUserBinding) : RecyclerView.ViewHolder(binding.root)

override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): UserViewHolder {

val binding = ItemUserBinding.inflate(LayoutInflater.from(parent.context), parent, false)

return UserViewHolder(binding)

}

override fun onBindViewHolder(holder: UserViewHolder, position: Int) {

val user = userList[position]

holder.binding.textName.text = user.name

holder.binding.textAge.text = "Age: ${user.age}"

}

override fun getItemCount(): Int = userList.size

}

📌 **ViewBinding makes accessing views easier and safer!** 🚀