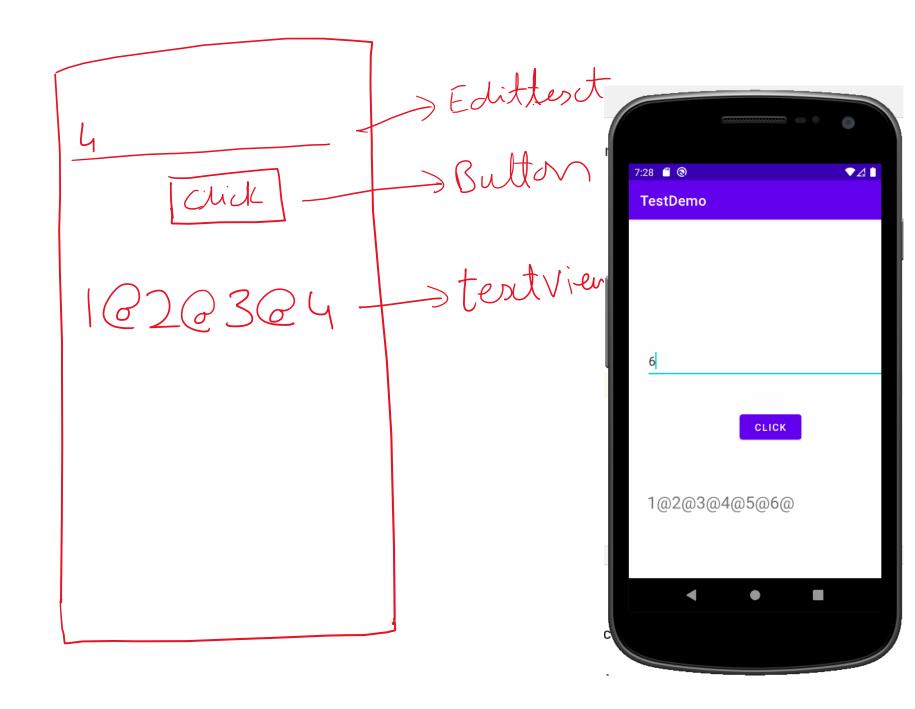
Week 1: Session 5

Functions and Nullable Values

Exercise



- Functions
- Kotlin Null Safety
- Exercise : Demo Application

Agenda

Functions

- Function is a group of related statements that perform a specific task.
- Functions are used to break a large program into smaller and modular chunks, makes our program more organized and manageable.
- Functions avoids repetition and makes code reusable.
- Type of Functions
 - Kotlin Standard Library Function
 - are built-in functions in Kotlin that are readily available for use
 - print(), main(), sqrt()
 - User-defined functions
 - create functions yourself

fun main(){

var number = 2

print("Result = \${Math.sqrt(number.toDouble())}")

```
Functions Examples return type

fun addNumbers(n1: Double, n2: Double): Int) {

parametrical par
                                                                            () val sum = n1 + n2
                                                                       preturn sum.toInt()
5
                                                              fun main() {
                                                                                    \nablaval number1 = 12.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                             -> arguments
                                                                                       val number2 = 3.4
                                                                                               val result: Int = addNumbers(number1, number2)
                                                                                               println("result = $result")
```

You can omit the curly braces { } of the function body and specify the body after = symbol if the function returns a single expression

```
fun main() {
   println(getName("John", "Doe")) argunt
fun getName(firstName: String, lastName: String):(String) "$firstName $lastName"
```

Kotlin Null Safety

- Kotlin null safety is a procedure to eliminate the risk of null reference from the code.
- NULLABLES/OPTIONALS in Kotlin
- Kotlin supports nullability as part of its type System.
 - That means You have the ability to declare whether a variable can hold a null value or not.
 - By supporting nullability in the type system, the compiler can detect possible NullPointerException errors at compile time and reduce the possibility of having them thrown at runtime.
- Handling Kotlin Nullable types
 - Nullable types are declared by putting a? behind the String

