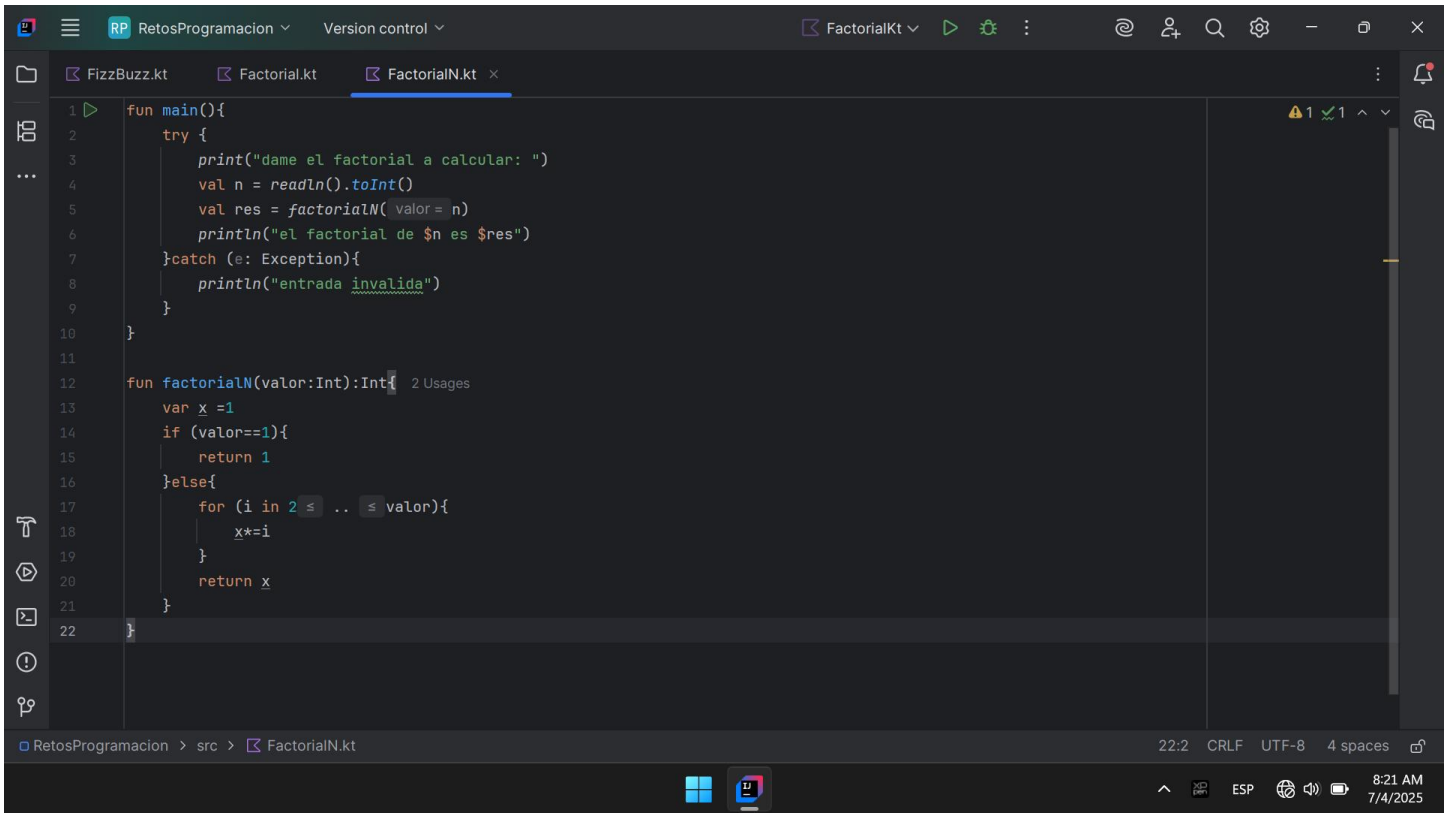
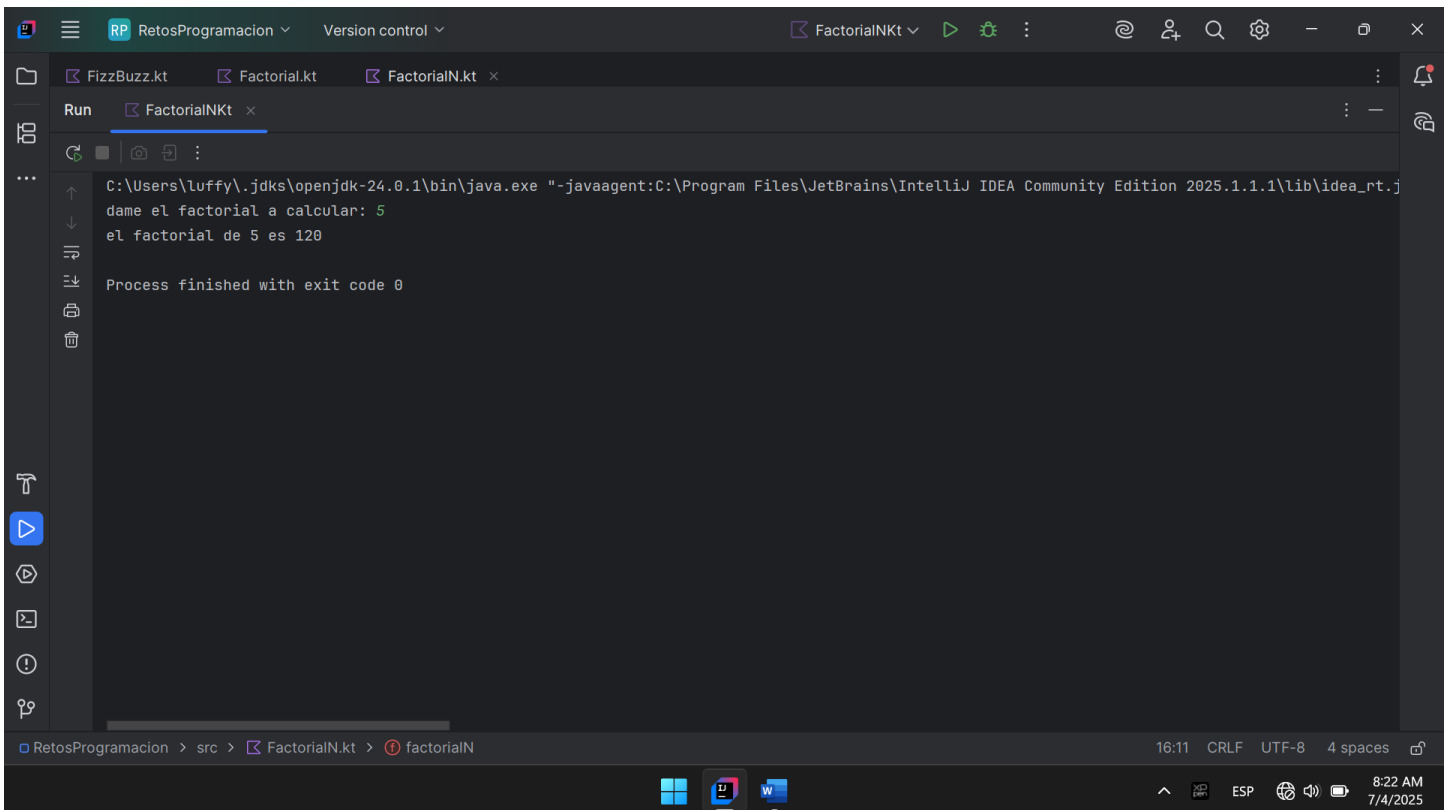


# FACTORIAL NO RECURSIVO



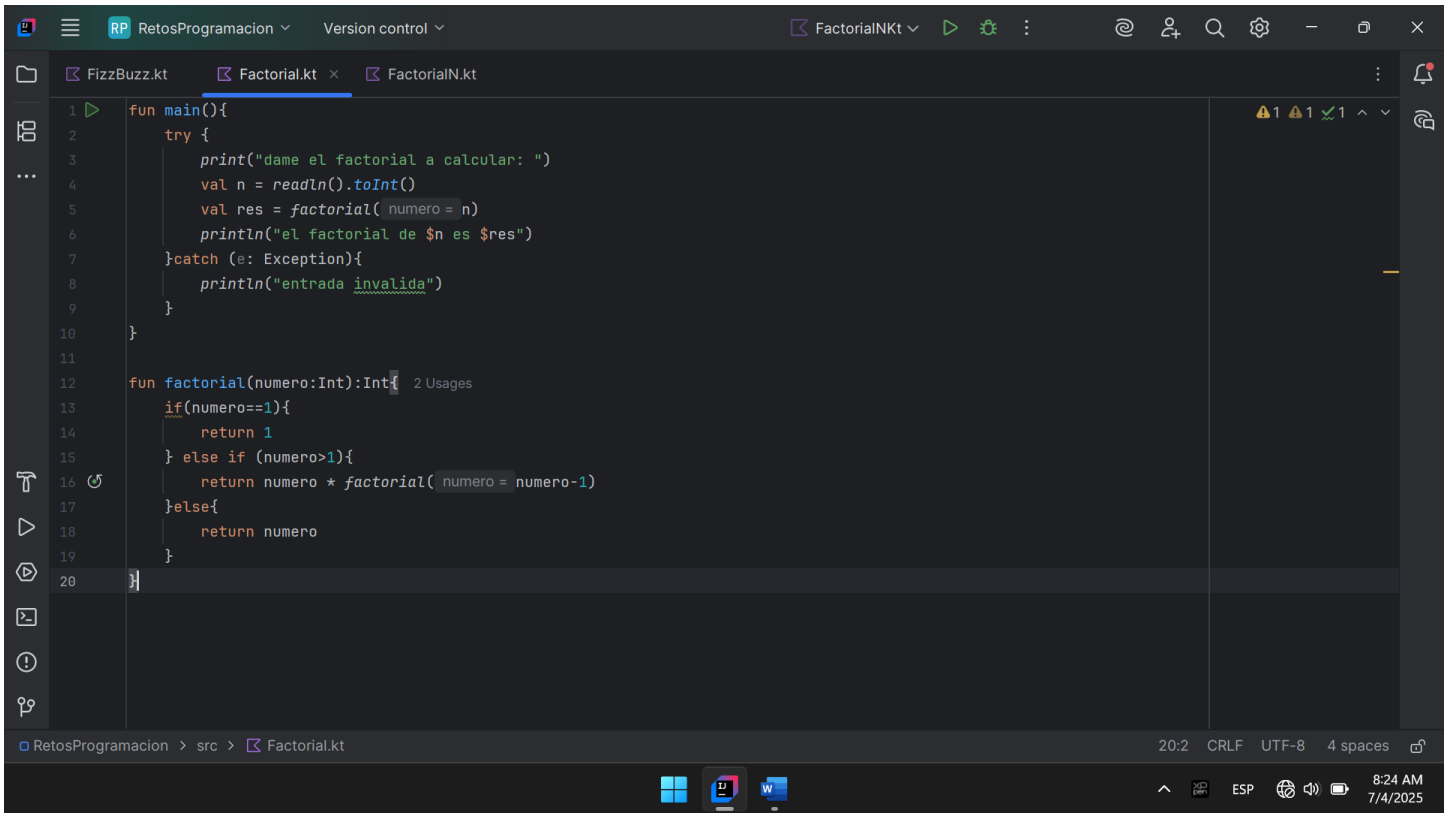
```
1 fun main(){
2     try {
3         print("dame el factorial a calcular: ")
4         val n = readln().toInt()
5         val res = factorialN( valor = n)
6         println("el factorial de $n es $res")
7     } catch (e: Exception){
8         println("entrada invalida")
9     }
10 }
11
12 fun factorialN(valor:Int):Int{ 2 Usages
13     var x = 1
14     if (valor==1){
15         return 1
16     } else {
17         for (i in 2 .. valor){
18             x*=i
19         }
20         return x
21     }
22 }
```



```
Run FactorialN.kt x
C:\Users\luffy\.jdk\openjdk-24.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2025.1.1.1\lib\idea_rt.j
dame el factorial a calcular: 5
el factorial de 5 es 120

Process finished with exit code 0
```

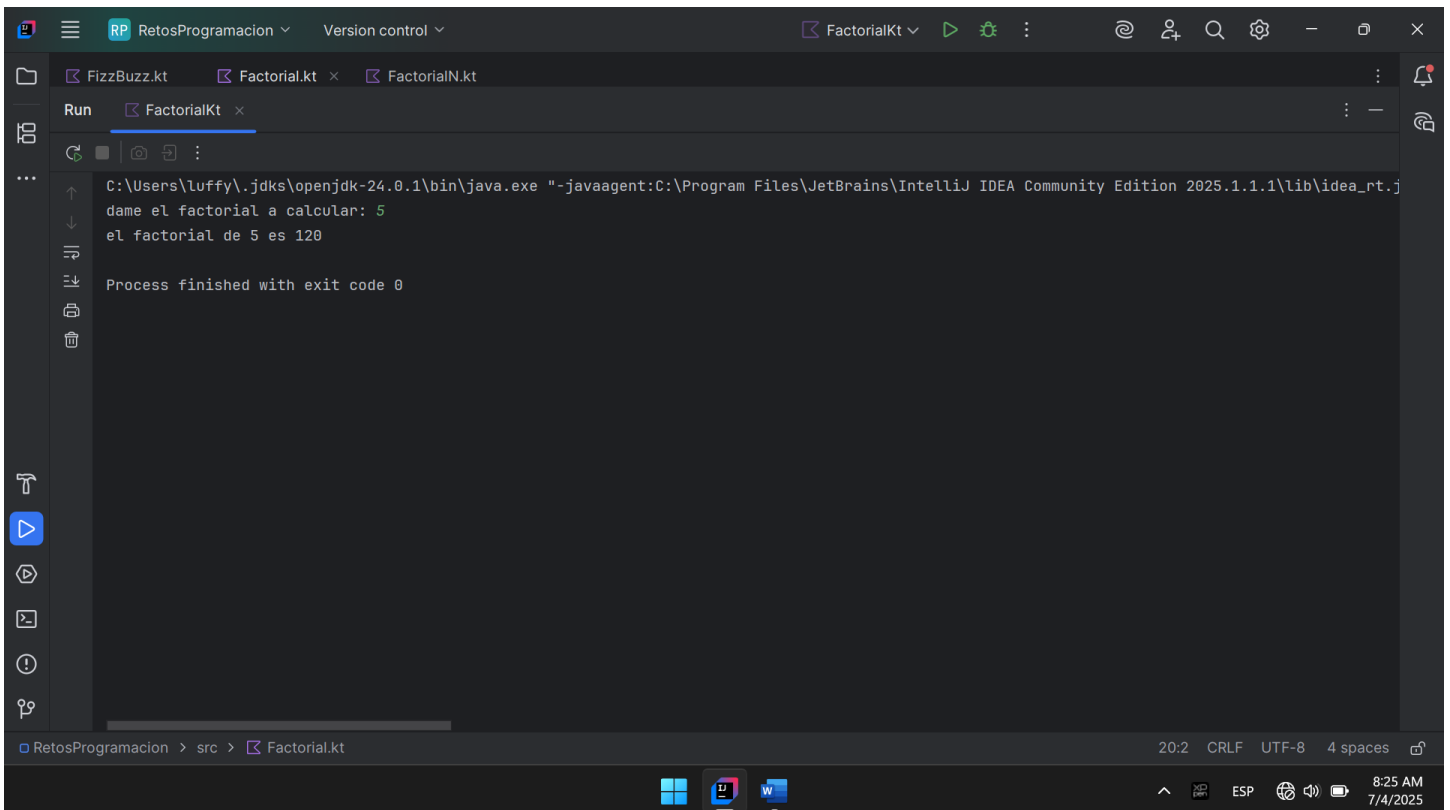
# FACTORIAL RECURSIVO



The screenshot shows the IntelliJ IDEA editor with the file `Factorial.kt` open. The code implements a recursive factorial function in Kotlin. The `main` function prompts the user for a number and calls the `factorial` function. The `factorial` function uses a `try-catch` block to handle potential exceptions. The code is as follows:

```
1 fun main(){
2     try {
3         print("dame el factorial a calcular: ")
4         val n = readln().toInt()
5         val res = factorial( numero = n)
6         println("el factorial de $n es $res")
7     } catch (e: Exception){
8         println("entrada invalida")
9     }
10 }
11
12 fun factorial(numero:Int):Int{ 2 Usages
13     if(numero==1){
14         return 1
15     } else if (numero>1){
16         return numero * factorial( numero = numero-1)
17     } else{
18         return numero
19     }
20 }
```

The status bar at the bottom indicates the file is at `RetosProgramacion > src > Factorial.kt`, with a cursor at line 20, column 2. The encoding is UTF-8, line endings are CRLF, and there are 4 spaces per tab.



The screenshot shows the IntelliJ IDEA Run window for the `FactorialKt` class. The output of the program is displayed, showing the user input and the calculated factorial.

```
C:\Users\luffy\.jdk\openjdk-24.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2025.1.1.1\lib\idea_rt.j
dame el factorial a calcular: 5
el factorial de 5 es 120

Process finished with exit code 0
```

The status bar at the bottom indicates the file is at `RetosProgramacion > src > Factorial.kt`, with a cursor at line 20, column 2. The encoding is UTF-8, line endings are CRLF, and there are 4 spaces per tab.