USN-22BTRAD030

SCALA PROGRAMMING

Tail Recursion:

```
HelloWorld.scala
                                                                                                     3zn3wbnzx 🧪
                                                                                                                                                                                                                                                    RUN 🕨
                                                                                                                                                                                                                                                                                        \square
                                                                                                                                                                                                         NEW
   1 import scala.annotation.tailrec
                                                                                                                                                                                                    STDIN
  val z = scala.io.StdIn.readInt()
val a = scala.io.StdIn.readInt()
 val a = scala.io.StdIn.readInt()
4 val b = scala.io.StdIn.readInt()
5 def factorial(n: Int): Int = if (n == 0) 1 else n * factorial(n-1)
6 * def factorial2(n:Long):Unit={
    @tailrec
8 * def factorialAccumulator(acc: Long, n: Long): Long = {
        if (n == 0) acc else factorialAccumulator(n*acc, n-1)
                                                                                                                                                                                                    8
                                                                                                                                                                                                    4
                                                                                                                                                                                                  Output:
11 | println(f
12 )
13 factorial2(z);
14 factorial2(a);
                    println(factorialAccumulator(1,n));
                                                                                                                                                                                                  40320
                                                                                                                                                                                                   24
15 factorial2(b);
16
17
```