

SCALA PROGRAMMING

NAME- SOHAN SAHA

USN- 22BTRAD029

HelloWorld.scala3zmhcr2z3NEWSCALARUN

```
1 object MathUtils {
2   def factorial(n: Int): BigInt = {
3     if (n == 0 || n == 1) {
4       1
5     } else {
6       n * factorial(n - 1)
7     }
8   }
9 }
10 object Main {
11   def main(args: Array[String]): Unit = {
12     val number1 = 2
13     val result1 = MathUtils.factorial(number1)
14     println(s"The factorial of $number1 is: $result1")
15     val number2 = 12
16     val result2 = MathUtils.factorial(number2)
17     println(s"The factorial of $number2 is: $result2")
18   }
19 }
```

STDIN

Input for the program (Optional)

Output:

The factorial of 2 is: 2
The factorial of 12 is: 479001600