

Lab 4 – Exercise 4 Calculating Factorial

Version A:

GIVENS: *(none)*

RESULT: *(none)*

INTERMEDIATES: *n (integer to calculate N!)*
nFact (N Factorial)

HEADER: : Main()

BODY:

```
print("Please enter a positive integer to calculate N!: ")
n ← readInteger()
nFact ← calculateFact(n)
printLine("The factorial is ", nFact)
```

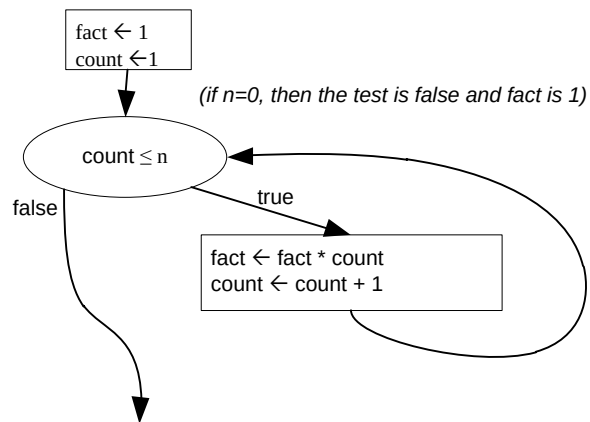
GIVENS: *n (integer to calculate factorial)*

RESULT: *fact (N factorial i.e. N!)*

INTERMEDIATES: *count (to count numbers from 1 to N)*

HEADER: *fact ← calculateFact(n)*

BODY:



Version B of the Main algorithm

GIVENS: (*none*)

RESULT: (*none*)

INTERMEDIATES: n (*integer to calculate $N!$*)
 $n\text{Fact}$ (*N Factorial*)

HEADER: : Main()

BODY:

