

## Pseudocode for Factorial Calculation Assignment.

```
FUNCTION CalculateFactorial(n)
  IF n IS NOT AN INTEGER OR n < 0 THEN
    PRINT "Error: Input must be a non-negative integer."
    RETURN "Invalid Input"
  END IF

  // Handle Edge Cases: Factorial of 0 and 1 is = 1.
  IF n = 0 OR n = 1 THEN
    factorial_result = 1
  ELSE
    // Calculate Factorial using Iteration
    // Initialize result to 1
    factorial_result = 1
    // Loop from 2 up to n (inclusive)
    FOR i FROM 2 TO n
      // Multiply the current result by the loop counter
      factorial_result = factorial_result * i
    END FOR
  END IF

  PRINT "The factorial of " + n + " is: " + factorial_result
  RETURN factorial_result

END FUNCTION
```