```
BEGIN
    FUNCTION Factorial(n)
        IF n = 0 OR n = 1 THEN
            RETURN 1
        ELSE
            SET result TO 1
            FOR i FROM 2 TO n DO
                result = result * i
            END FOR
            RETURN result
        END IF
    END FUNCTION

    // Main program
    SET userInput TO GET_USER_INPUT("Enter a number:")
    SET factorialResult TO Factorial(userInput)
    PRINT "The factorial of " + userInput + " is: " + factorialResult
END
```