Experiment – 26

**Objective:** Define a LISP function to compute the factorial of a given number.

**Theory:** The factorial of any non-negative number n, denoted by **n!**, is the product of all positive integers less than or equal to n.

For example 3! = 3\*2\*1.

The value of 0! is 1, according to the conversion for an empty product.

**Source Code:**

(defun fact(x)

    (setq result 1)

    (loop

        (setq result (\* result x))

        (setq x (- x 1))

        (when (= x 1)(return))

    )

    (format t "factorial is :~d " result)

)

(fact 6)

**Output:**

