**For the following algorithms, write pseudo code first, then the real code to solve them.**

**Sigma:**

Implement a function sigma(num)​ that, given a number, returns the sum of all positive integers from 1 up to number (inclusive). Ex.: sigma(3) = 6 (or 1+2+3); sigma(5)​ = 15 (or 1+2+3+4+5).

Pseudo code:Set sigma = 0 Set n=0While n less than x Increment sigma by n Print sigma nEnd Code:var sigma =0

X=5

for ( var n=0 ; n<=x ; n++){sigma +=x}console. log(sigma);

Factorial: Write a function factorial(num) that, given a number, returns the product (multiplication) of all positive integers from 1 up to number (inclusive). For example, factorial(3) = 6 (or 1 \* 2 \* 3); factorial(5) = 120 (or 1 \* 2 \* 3 \* 4 \* 5). Pseudo code:Set factorial = 1

Set n=1

While n less than x multiply factorial by n Print factorial nEnd Code:var factorial =1

X=5

for ( var n=1 ; n<=x ; n++){factorial \*=x}console. log(factorial);