**Problem Statement:Function Design and Modularization - Create a document that describes the design of two modular functions: one that returns the factorial of a number, and another that calculates the nth Fibonacci number. Include pseudocode and a brief explanation of how modularity in programming helps with code reuse and organization.**

**Solution:**

**//Modular Function to return Factorial of a number**

**FUNCTION factorial(int number)**

**IF number equals 1**

**RETURN 1**

**ELSE**

**RETURN number \* factorial(number-1)**

**//Modular Function to calculate nth Fibonacci number**

**FUNCTION findFibonacci(int n) {**

**int =0**

**Int b=1**

**Int fib=0;**

**IF(n<1) {**

**PRINT 1**

**}**

**ELSE {**

**FOR(i=2; i <= n; i++){**

**fib = a+b**

**a = b**

**b = fib }**

**}**

**PRINT fib**

**}**

**Modularization is used to break the problem into smaller problems and we can reuse those modules by calling the modules whenever required.It helps in organizing the code so that it makes more readable.**