Assignment 3:  
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.

Function factorial Pass in num

While num>=1

fact\*=num

End loop

Pass out fact

End Function

Function findfact

Pass in n

Declare a=0, b=1, c

For i from 2 to n

c=a+b

a=b

b=c

end loop

Pass out b

Reasons that help modularity in programming are:

1. Code Reuse: When the programs are divided into smaller parts the individual parts can be reused in different parts of the program.
2. It makes it easier to update a specific part of a program and understand .
3. It also helps in adding new parts to the code.