

Overview: Your work on the final project for this course is supported by a series of stepping stone labs. This is the first. Stepping Stone Lab One is an opportunity to consider how to incorporate object-oriented principles to solve a problem in a manner that users can readily engage.

In this lab, you will write pseudocode for the final project scenario program. Pseudocode is a description of how a program will be structured and will operate. It allows a programmer to "think in words" about the design of a program before composing code, and it is also useful for project teams in deciding on basic structures and design.

Prompt: Address the following in your submission:

- Analyze the problem your program will solve. This analysis will inform your code logic as you consider how to solve the problem. А. А.
 - Break the problem down into distinct steps of pseudocode that will solve the problem.
- Create variables to track the various elements in the pseudocode; use control structures such as branching or looping.
- Use natural language to work through the problems.

<u>ن</u> .

Refer to the How to Write Pseudocode document for guidance.

Rubric

Guidelines for Submission: This assignment should be submitted as a Microsoft Word document with 12-point Times New Roman font and one-inch margins.

Critical Element	Proficient (100%)	Need Improvement (70%)	Not Evident (0%)	Value
Assignments	All variables are assigned with logical names	Variables are present but do not clearly	Variables are not assigned	10
	and represent relevant values	represent the relevant values		
Code Logic	Pseudocode clearly illustrates all of the	Pseudocode illustrates all or most of the	Pseudocode does not illustrate the program's	30
	program's primary functionality and logic and	program's primary functionality and logic, but	primary functionality and logic	
	is self-explanatory	pseudocode is not self-explanatory, has		
		inconsistencies with the program's		
		functionality, or contains significant errors or		
		gaps in detail		
Decisions or Flow	Proper decision functionality is clearly defined	Decision functionality is present but is not	Decision functionality is not present	20
Control Using	and correctly applied using a branching	clearly defined or is applied incorrectly		
Branches	structure			

Southern New Hampshire University

Iteration or	Appropriate processing steps and iterations	More than one processing step or iteration is	Processing steps or iterations are absent or do	70
Processing Using	are clearly represented using a loop structure	incomplete, lacks clarity, or is absent	not represent the proper steps to solve the	
Loops			problem	
Readability and	Pseudocode is clear and understandable and	Pseudocode contains portions that are	Pseudocode is difficult to understand and is	70
Convertibility	the code is organized	unclear, difficult to understand, or	unorganized	
		unorganized		
			Total	Total 100%