**CSS 225 Module 2 Lab Activity – Good Programming Habits**

**Deliverables:**

* Within this document add pseudocode and flowcharts for problems 1, 2, and 3.
* Give naming scheme examples for problems 4, 5, and 6.
* Give found resources for problem 7

**Practice Pseudocode and Flowcharts:**

For the flowcharts we will be using a web app for drawing: [draw.io](file:///C:\Users\Larry\Downloads\draw.io)

Write Pseudocode and draw flowcharts for the following programs:

1 – A program that prints “Hello World” to the screen.

Print(“Hello, World)

A screenshot of a computer

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2 – A program that asks the user for their name and greets them with their name.

Print(“Hello, Whats your name?”)

n=input(“Type in your name: “)

Print(“Hello, n)

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3 – A program that asks the user for two numbers and gives the user the possibility to choose between computing the sum and computing the product.

Print(“hello, please enter two numbers)

n=input (“Enter the first number, “)

n1=input(“Enter the second number, “)

Print(“Do you want to multiply them or add them”)

n2=input (“Type add or multiply, “)

If n2=Multiply

Then (n\*n1)

If n2=Add

Then (n+n1)

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**Naming Schemes**

You are writing a new program and want to use an obvious and consistent naming scheme for each variable you will create.

4 – A program that calculates the users BMI (Body Mass Index). You will need to collect their height and weight. What would you name these input variables? What would you name the output variable?

Height=input

Weight=input

BMI=Output

5 – A program that checks if the user for their login and password and checks it against a database. What names would you give these variables?

Username=input

Password=input

6 – A program that automatically converts English text to Morse code and vice versa. What names would you give the variables in this program?

If English to morse code

Then

English=Input

Morse code=Output

If Morse code to English

Then

Morse Code=Input

English=Output

**Resources**

It is important to develop a list of resources you can use to help you solve problems. Do a web search and find three sources that have not been mentioned in the slides or books.

7 – <https://docs.python.org/3/library/functions.html>

8 – <https://python-forum.io/>

9 – <https://www.w3schools.com/python/python_ref_glossary.asp>

