**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:///Users/albertobenavides/Downloads/draw.io)

Write Pseudocode and draw flowcharts for the following programs:

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

Print statement of “hello world”

Graphical user interface, text, chat or text message

Description automatically generated

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

Input the variable “Please enter your name”

Print “Hello” with the variable

A picture containing application

Description automatically generated

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.

Ask 2 numbers

User put 2 numbers

Choose computing the sum or product

Choose the sum or product

A picture containing polygon

Description automatically generated

**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?

Put the words as “height” and “weight” on the python then use it as print(weight) or print(height) for the result. For the weight and height for input they should say “Enter your weight” or “height” then put the print(weight or height, ##) and for the output they should say “Weight # or height #” to the result.

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?

I would give these variables name as “login, password” then put the print(login) (password)

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

I would give the variable name as “Language = Vice Versa” then put print (vice versa)

**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 – Graphs

8 – Fine grained

9 – Erdos problem

