**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>

Write Pseudocode and draw flowcharts for the following programs: Flow charts below

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

Print(“hello world”)

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

User\_name=input(“Please enter your first name and last name”)

Print(User\_name)

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.

Choosen\_number\_1=input(“Enter a number”)

Choosen\_number\_2=input(“Enter a number different from the first one”)

User\_choice (to figure out which one they want)

result=Chosen\_number\_1+ Chosen\_number\_2

Print(“result is”+result)

result=Chosen\_number\_1\* Chosen\_number\_2

Print(“result is”+result)

Result(The answer to their choice)

**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?

I would name the first variable your\_weight and the second variable your\_height and third BMI.

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?

The first variable would be named username and the second one would be password. The other variable would be for the database so its name would be databaseInfo. Final one I believe would be it matching the information so Correct\_Match

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

The first one input\_text next one is output\_text. Then for the translation we need mcodeDictionary. Now for the conversion wayofConversion.

**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 – Reddit

8 – Youtube

9 – Forums



