**Joel Navarrete**

**Module 2: Good Programming Habits**

**CSS 225**

**Practice Pseudocode and Flowcharts:**

Write Pseudocode and draw flowcharts for the following programs:

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

Type in “Hello World”

Output displayed by program “Hello World”

print(“Hello Word”) 🡪 output “Hello World” 🡪 End

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

Program asks to enter your name

Type in your name “Joel”

Output is displayed “Hello Joel”

name = input”Enter your name: “ 🡪 print(“Hello “ + name) 🡪 output “Hello Joel” 🡪 End

3. **A program that asks the user for a number n** and gives them the possibility to choose between *computing the sum and computing the product 1*, ..., n.

Program asks user for a number n

Choices are computing the sum and computing the product of 1

User enters what choice

Output is either the sum or computing the product

n = int(input(“Enter a number “))

choice = int(input("Enter 1 for product until n or Enter 2 for sum until n "))

**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?**

Inputs: user\_height and user\_weight

Outputs: user\_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?**

user\_login and user\_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?**

english\_text & more\_code

**Resources**

**7**. Python.org

**8**. YouTube.com

**9**. computing.outwood.com