**CS 150 Introduction to CS I**

**Python – Worksheet 01**

**Directions**: The first two problems should be done in Wing. Save your solution as your lastname, first initial, Wk01 (Ex: If your name was John Doe, the file would be saved as DoeJWk01.py). Use appropriate comments at the beginning to indicate purpose, author, date, and filename.

1. Write Python code to display your name in a box. For example, your output might look like this:

**+---------+**

**| Carolyn |**

**+---------+**

1. Write Python code to display your initials to the monitor using the letter of the initial to make the big initial. For example, your output might look like this:

CCCCCCCC AA H H

C A A H H

C A A H H

C AAAAAAAA HHHHHHHHHHH

C A A H H

C A A H H

CCCCCCCC A A H H

**Directions**: For the last two problems, you **must show your work**, not just the answer. Highlight your final answer for each problem as shown in the example.

Example problem:

a = 2

b = 6

c = 9

What value is stored in **d** after this statement?

d = a \* (c - b) % 3

Example solution:

d = 2 \* (9 - 6) % 3

d = 2 \* 3 % 3

d = 6 % 3

d = 0

1. Assume the following values have been assigned to variables.

j = 5

k = 3

m = 7

What is stored in the variable **n** after **each** statement? Treat each as a separate problem.

* 1. n = j + k \*\* 2
  2. n = j + k + m
  3. n = j / k + m
  4. n = j // k \* m
  5. n = j % 2 + k \* 4 – m / 3
  6. n = (j + k) \* 2 – 10 / (m – k)

1. Assume the following values have been assigned to variables.

x = 3.5

y = 4.2

z = 12.35

What is stored in **t** after each statement or group of statements is executed?

* 1. t= x + y + z
  2. t = x – y \* z
  3. t = x / x + z
  4. t = x \* (y + 2) \* (z – 10)
  5. t = 1

t = t + 2

* 1. t = x + y + z

t = t + 2 \* t

What to submit to Katie? TWO FILES

1. Python file (.py) with solution to problems 1 and 2. Be sure to name the file as per directions.
2. Word doc (.docx) with solutions to problems 3 and 4. Remember to show your work and highlight your final answer for each problem.