CS 150 Introduction to CS I Python – Worksheet 01 Ahmad M. Osman

- 1. Python File
- 2. Python File
- 3. 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.

a.
$$n = j + k ** 2$$

 $n = 5 + 3 ** 2$
 $n = 5 + 9$
 $n = 14$
b. $n = j + k + m$
 $n = 5 + 3 + 7$
 $n = 8 + 7$
 $n = 15$

d.
$$n = j // k * m$$

 $n = 5 // 3 * 7$
 $n = 1 * 7$
 $n = 7$

f.
$$n = (j + k) * 2 - 10 / (m - k)$$

 $n = (5 + 3) * 2 - 10 / (7 - 3)$
 $n = 8 * 2 - 10 / 4$
 $n = 16 - 10/4$
 $n = 16 - 2.5$
 $n = 13.5$

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

$$x = 3.5$$

 $y = 4.2$
 $z = 12.35$

t = 60.15

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

a.
$$t = x + y + z$$
 $t = 3.5 + 4.2 + 12.35$
 $t = 7.7 + 12.35$
 $t = 20.05$

b. $t = x - y * z$
 $t = 3.5 - 4.2 * 12.35$
 $t = -48.37$

c. $t = x / x + z$
 $t = 3.5 / 3.5 + 12.35$
 $t = 11.35$

d. $t = x * (y + 2) * (z - 10)$
 $t = 3.5 * (4.2 + 2) * (12.35 - 10)$
 $t = 3.5 * (6.2 * 2.35)$
 $t = 21.7 * 2.35$
 $t = 50.955$

e. $t = 1$
 $t = t + 2$
 $t = 1 + 2$
 $t = 3$

f. $t = x + y + z$
 $t = (x + y + z) + 2 * (x + y + z)$
 $t = (3.5 + 4.2 + 12.35) + 2 * (3.5 + 4.2 + 12.35)$
 $t = 20.05 + 2 * 20.05$
 $t = 20.05 + 40.1$