**Tyler Butler Lab 2**

**1/28/18**

1. Write assignment statements that perform the following operations with the variables

a, b, and c.

a) Adds 2 to a and stores the result in b

b) Multiplies b times 4 and stores the result in a

c) Divides a by 3.14 and stores the result in b

d) Subtracts 8 from b and stores the result in a

e) Stores the character ‘K’ in c

f) Stores the Unicode code for ‘B’ in c

2. Assume the variables result, w, x, y, and z are all integers, and that w = 5, x = 4, y = 8,

and z = 2. What value will be stored in result in each of the following statements?

a) result = x + y;

b) result = z \* 2;

c) result = y / x;

d) result = y − z;

e) result = w % 2;

**Answer:**

1. 12
2. 4
3. 2
4. 6
5. 1

3. Modify the following program so it prints two blank lines between each line of text.

public class

{

public static void main(String[] args)

{

System.out.print("Hearing in the distance");

System.out.print("Two mandolins like creatures in the");

System.out.print("dark");

System.out.print("Creating the agony of ecstasy.");

System.out.println(" - George Barker”);

}

}

**Modified Version:**

public class

{

public static void main(String[] args)

{

System.out.print("Hearing in the distance\n\n");

System.out.print("Two mandolins like creatures in the\n\n");

System.out.print("dark\n\n");

System.out.print("Creating the agony of ecstasy.\n\n");

System.out.println(" - George Barker”);

}

}

4. What will the following code output?

int apples = 0, bananas = 2, pears = 10;

apples += 10;

bananas \*= 10;

pears /= 10;

System.out.println(apples + " " + bananas + " " + pears);

**Answer:**

“10 20 1”

5. What will the following code output?

double d = 12.9;

int i = (int)d;

System.out.println(i);

6. What will the following code output?

String message = "Have a great day!";

System.out.println(message.toUpperCase());

System.out.println(message);

7. Convert the following pseudocode to Java code. Be sure to declare the appropriate

variables.

Store 20 in the speed variable.

Store 10 in the time variable.

Multiply speed by time and store the result in the distance

variable.

Display the contents of the distance variable.