**Homework #2**

**Read Textbook Chap.2.2 ~2.10, 2.12~2.16 and answer the following questions:**

1. Identify and fix the errors in the following code: (3 errors)

1 **public** **class** **Test** {

2 **public** void main(string[] args) {

3 double i = 50.0;

4 double k = i + 50.0;

5 double j = k + 1;

6

7 System.out.println("j is " + j + " and

8 k is " + k);

9 }

10 }

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1. Which of the following identifiers are valid? Which are Java keywords?

miles, Test, a++, --a, 4#R, $4, #44, apps

class, public, int, x, y, radius

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1. What are the benefits of using constants? Declare an int constant SIZE with value 20.

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1. Show the result of the following remainders.

56 % 6 🡺

78 % -4 🡺

-34 % 5 🡺

-34 % -5 🡺

5 % 1 🡺

1 % 5 🡺

1. Are the following statements correct? If so, show the output.

System.out.println("25 / 4 is " + 25 / 4);

System.out.println("25 / 4.0 is " + 25 / 4.0);

System.out.println("3 \* 2 / 4 is " + 3 \* 2 / 4);

System.out.println("3.0 \* 2 / 4 is " + 3.0 \* 2 / 4);

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1. Write a statement to display the result of

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1. How do you obtain the current second, minute, and hour?

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1. Show the output of the following code:

double a = 6.5;

a += a + 1;

System.out.println(a);

a = 6;

a /= 2;

System.out.println(a);

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1. Show the output of the following code:

int a = 6;

int b = a++;

System.out.println(a);

System.out.println(b);

a = 6;

b = ++a;

System.out.println(a);

System.out.println(b);

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1. Show the output of the following code:

double amount = 5;

System.out.println(amount / 2);

System.out.println(5 / 2);

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