**Name:** Gia Dao

**UTA ID:** 1001747062

**CSE – 1310**

**Task 1: (The following code is given by the instructor)**

public class task1

{

public static void main(String[] args)

{

System.out.println("5+7");

System.out.println(5+7);

}

}

compile:

run:

5+7

12

BUILD SUCCESSFUL (total time: 0 seconds)

**Answer:**

* If I execute this code, the main screen will print out

**Task 2:**

**What will be printed by the following code?**

public class task2

{

public static void main(String[] args)

{

int a = 10;

int b = 20;

System.out.println(a);

System.out.println(b);

b = a+b;

a = 2\*b - a;

System.out.println(a);

System.out.println(b);

}

compile:

run:

10

20

50

30

BUILD SUCCESSFUL (total time: 0 seconds)

}

**Answer:**

* If I execute this code, the main screen will print out

**Task 3:**

public class square

{

public static void main(String[] args)

{

double square\_area = side\_length \* side\_length;

double side\_length = 10.0;

System.out.println(square\_area);

}

}

**Answer:**

* As you know, Java language operates the program starting with the beginning statement; however, the expression calculating “square\_area” does not return a value as its component variable, the “side\_length” was not given an initial value. Furthermore, “side\_length” should be declared first in order to operate. Therefore, Java will not print out anything. Instead, we move the statement “double side\_length = 10.0” before calculating the area, then the program will run.

**Task 4:**

public class triangle

{

public static void main(String[] args)

{

int base = 3;

int height = 5;

int area = height \* base / 2;

System.out.println(area);

}

}

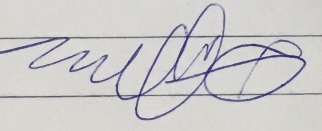
**Answer:**

* The program prints out the wrong result because it has declared wrong primitive data type for variable “area”. As you can see, “area”, “base” and “height” should be declared with the same data type – “float”, instead of integer, to get the exact result.

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I promise that I will submit only work that I personally create or that I contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Student’s signature.



Gia Dao