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**CSE 1310-005**

**Answers for Part 1**

**1.a.i)**

The output given was 54 + -17

**1.a.ii)**

The next output given was 37

**1.a.iii)**

The two outputs were different because one is outputting a string and one is outputting the result of 54 + -17. The quotation marks around “54 + -17” makes it so it outputs what is inside the quotation marks.

**1.b.i)**

Testing more arithmetic with negative numbers

54

-17

54 / -17

-3

-3.176470588235294

**1.b.ii)**

The two lines of input are different because one is integer division and one is floating point division. Integer division is going to output how many times the divisor goes in to the dividend without a remainder or decimal numbers.

**Answers for Part 2**

**2.a**)

Printing variable values

Num1 = 64

Num 2 = 8

Sum of num1 & num2 = 72

New value of num1 is 16

18 is the final value of num2

Sum of nums(version1) 1618

Sum of nums(version2) 34

**2.b)**

The name of the operation for “=” is assignment

**2.c)**

Sum of nums(version 2) 34

**2.d)**)

Sum of nums(version 1) 1618

**2.e)**

The two outputs are different because the parenthesis makes it so the plus sign becomes the addition operator. Without the parenthesis it just outputs the two numbers.

**Answers for Part 3**

**3.a)**

# Exception in thread "main" java.lang.RuntimeException: Uncompilable source code - cannot find symbol

# symbol: variable fahrTemp

**3.b)**

The line with the error is line number : 21

**3.d)**

The code did not work because the variable *fahrTemp* was not declared before using it.

**Answers for Part 4**

**4.a)**

This program asks the user to input two numbers, then the program takes those two numbers and uses the first number as a base and the second number raises the base to the power of the second number.

**4.b)**

1) a = 2 b = 3 c = 8.0

2) a = -5 b = 4 c = 625.0

3) a = 85 b = 0 c = 1.0

**4.c)**

2.3, string

**4.d)**

It lets the user add input in to the program.

**4.e)**

Because the user needs a prompt for their input. Without the prompt it will confuse the user and they won’t know what to do.

**Answers for Part 6**

**6.b)**

5, 9

**6.c)**

-7, 1.5