

Summary

If variable1 is of type `NumberFormat.getCurrencyInstance()` then `variable1.format(variable2)` will result in a string that has a dollar sign in front of it and have two numbers after a decimal point at the end of it

If variable1 is of type `NumberFormat.getPercentInstance()` then `variable1.format(variable2)` will result in a string that has variable2 changed to a percent number by moving the decimal over 2 places to the right and putting a % sign after it.

Answer the following

1) If `num = 0.5` then `x.format(num)`, where `x` is of type `NumberFormat.getCurrencyInstance()`, would be what? 1) _____

2) If `num = 0.5` then `x.format(num)`, where `x` is of type `NumberFormat.getPercentInstance()`, would be what? 2) _____

II. `DecimalFormat` Class

1) a) Open **P1ch3lab1b.java**

b) What new Class is imported? _____

c) There are four objects of Class type `DecimalFormat`. What are these four objects?

Summary

In the parenthesis after the **new** `DecimalFormat` is how the output will be formatted if that format is accessed. 0's mean show that number of significant places either before or after the decimal point while #'s mean show that many places if the number is that big either before or after the decimal point.

Answer the following (get help if you are confused or wait for the lecture where it will be explained)

1) `num = 0.5` then `x.format(num)`, where `x` is of type `DecimalFormat("00.##")`, would be what? 1) _____

2) `num = 0.5` then `x.format(num)`, where `x` is of type `DecimalFormat("##.00")`, would be what? 2) _____

Turn in this sheet to be graded!

Unit 3 Lab 1 - Formatting Output

class hour _____

Name _____

Pts: 10

page 1 of 2

I. NumberFormat Class

- 1) a) Open **P1ch3lab1.java**
- b) Run then write the output

Look at the code and answer:

c) What new Class is imported? _____

d) TAX_RATE is a constant because of what modifier _____

e) Does it have to be in all capital letters? Yes/No _____

f) There are two formatter objects of Class type NumberFormat.

What are these two objects? _____

g) There are two methods associated with NumberFormat .

(Recall: methods have ()'s after them.)

What are these two methods? _____

h) There is one method associated with both money and percent .

What is this method? _____

i) money.format(totalCost) is what output value? _____

j) money.format(subtotal) is what output value? _____

k) percent.format(TAX_RATE) is what output value? _____

Note: i), j), and k) above use the same method called format() yet the output is much different.

l) Change the line

System.out.println("Total: " + money.format(totalCost)); to

System.out.println("Total: " + money.format(TAX_RATE));

m) Run the program and answer:

Is the answer for TAX_RATE from k) above and this last output the same? (Yes/No) _____

n) Change the line

System.out.println("Total: " + money.format(TAX_RATE)); to

System.out.println("Total: " + percent.format(totalCost));

o) Run the program and answer:

Is the answer for totalCost from i) above and this last output the same? (Yes/No) _____

Over