

# Assignment 0

1/12/2022

20/20 Points

Offline Score:  
**20/20** Add Comment <sup>0</sup>

## Details

All labs must be emailed to [cislabs05@gmail.com](mailto:cislabs05@gmail.com) (<mailto:cislabs05@gmail.com>)

This lab is designed to get used to Java basics and compiler.

## Part 1

Write a program to create a customer's bill for a company. The company sells only five different products: TV, VCR, Remote Controller, CD Player and Tape Recorder. The unit prices are \$400.00, \$220, \$35.20, \$300.00 and \$150.00 respectively. The program must read the quantity of each piece of equipment purchased from the keyboard. It then, calculates the cost of each item, the subtotal and the total cost after an 8.25% sales tax. The input data consists of a set of integers representing the quantities of each item sold. These integers must be input into the program in a user- friendly way; that is, the program must prompt the user for each quantity as shown below -

How many TV's were sold? 3

How many VCR's were sold? 5

How many remote controller's were sold? 1

How many CD's were sold? 2

How many Tape Recorder's were sold? 4

The output of the program should print the following data properly formatted:

QTY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
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...

SUBTOTAL

TAX

TOTAL



(<https://deanza.instructure.com/courses/23660/modules/items/1808011>)

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Set 1 -> 2 1 4 1 2

Set 2 -> 3 0 2 0 21

Format the output adequately showing the 4 columns (QTY, DESCRIPTION, UNIT PRICE, TOTAL PRICE) in a single row. Use `System.out.printf` for output.

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## Proj 2.

The formula for converting centigrade temperature to Fahrenheit is:

$$F = 32 + C (180.0/100.0)$$

Write a program that asks the user to enter a temperature reading in Centigrade and then prints the equivalent Fahrenheit value. It then asks the user to enter a Fahrenheit value and prints out the equivalent Centigrade value. Run the program several times. Be sure to include at least one negative temperature reading in your test cases.



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