

JAVA PROGRAMMING LANGUAGE

Assignment 1

Download the latest version of NetBeans + Jdk and install it on your home computer.

1. Write a program that determines the change to be dispensed from a vending machine. An item in the machine can cost between 25 cents and 1 dollar, in 5-cent increments (25, 30, 35, . . . 90, 95, or 100), and the machine accepts only a single dollar bill to pay for the item. For example, a possible sample dialog might be the following:

Enter price of item (from 25 cents to a dollar, in 5-cent increments): 45

You bought an item for 45 cents and gave me a dollar, so your change is:

2 quarter(s)

0 dime(s)

1 nickel(s)

2. Write a program that inputs the name, quantity, and price of three items. The name may contain spaces. Output a bill with a tax rate of 6.25%. All prices should be output to two decimal places.

The bill should be formatted in columns with 30 characters for the name, 10 characters for the quantity, 10 characters for the price, and 10 characters for the total.

Sample input and output is shown as follows:

```
Input name of item 1: lollipops
Input quantity of item 1: 10
Input price of item 1: 0.50
Input name of item 2: diet soda
Input quantity of item 2: 3
Input price of item 2: 1.25
Input name of item 3: chocolate bar
Input quantity of item 3: 20
Input price of item 3: 0.75
```

Your bill:

Item	Quantity	Price	Total
lollipops	10	0.50	5.00
diet soda	3	1.25	3.75
chocolate bar	20	0.75	15.00

Subtotal	\$23.75
6.25% sales tax	\$1.48
Total	\$25.23