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/*Written by A Student for CS1301
    On: Month, Day, Year
     Purpose: Program passing input sales amount to determine
     if buyer has earned free tshirts that bookstore owner
     is trying to get rid of. Produces receipt for sale and
 6
     informs user of number of free tshirts earned, if appicable.
 7
    Problem :
8
9
10
    Book store manager ordered a boatload of
11
    Finals are fun t-shirts.
12
     Funny thing is , no one wants them. Imagine that.
     She cannot return them. The t-shirt company thought she was insane,
13
14
     so they made that a condition before they fulfilled the order.
15
     She decided to try Free give away if you buy at least $10 in merchandise
16
     if they order $30 in merchandise give them two.
17
18
    Requirements:
19
20
     1. Write a main class named ... BookstoreOrder
21
22
        Input sales amount from the command line (args[0]). As double
23
2.4
     3. Make sure more that the sale is more than 0
25
26
       If the sale greater than or equal to $10 , then 1 free t-shirt
27
28
     5. If the sale greater than or equal to $17.50 , then 2 free t-shirts
29
30
     6 Output. Sales amount and How many free t-shirts
31
32
    7. output shall resemble (depending on sales input).
33
34
         **** Campus Bookstore ****
35
36
         Sale: $5.99
37
38
   or
39
40
         **** Campus Bookstore ****
41
42
         Sale: $15.99
43
         1 Free Finals are Fun T-Shirt
44
45
   or
46
        **** Campus Bookstore ****
47
48
49
         Sale: $35.99
50
         2 Free Finals are Fun T-Shirt
51
52
53
     import CSCI.*;
54
     import java.util.*;
55
    public class BookstoreOrder //begin JCarpenterBookStoreOrder
56
57
         final static double ERROR = 5.59; //error constant, input will default to $5.59 if
         cannot be parsed
         final static String FORMAT = "
58
                                            %5s = $%7.2f"; //format for receipt
         //final static int SALESTAX = 7; //declare constant sales tax of 7%. unused in this
59
        homework assignment
60
         public static int FreeTShirtNumber = 2; //declare freetshirtnumber integer value,
         default to 2 free shirts
61
62
        public static void main(String[] args) //begin main
63
         {
64
           double salesAmount = CSCIConvert.Parse(args[0], ERROR); //record input arguments
           as double
65
           testInput(salesAmount); //check if sales amount is valid
```

```
checkForFreeTshirts(salesAmount); //call method to determine if buyer earns free
 66
 67
            printOutput("Sale: ",salesAmount,FreeTShirtNumber); //print final receipt out
 68
          }//end main
 69
 70
          //begin methods
 71
          public static void testInput (double salesAmount) //testInput method to determine if
          input is valid for program
 72
 73
              if(salesAmount <= 0) //check if sales amount is 0 or negative, which is invalid
 74
 75
                  System.out.println("SALE CANNOT BE NEGATIVE"); //error message given to user
 76
                  System.exit(0); //end program in event of error
 77
 78
          } //end testInput method
 79
 80
          public static int checkForFreeTshirts (double salesAmount) //method to check how
          many free shirts buyer has earned
 81
          {
 82
              if(salesAmount < 10) //if sales amount is less than ten dollars, no free tshirt
 83
 84
                  FreeTShirtNumber = 0; //set free tshirt value to 0, no free tshirt
 85
              }
 86
              else if (10 < salesAmount && salesAmount < 17.50) //if salesAmount is greater
              than 10 but less than 17.50, 1 free shirt
 87
                  FreeTShirtNumber = 1; //set freetshirt to 1 in accordance with conditions
 88
 89
              }
 90
              return FreeTShirtNumber; //return integer value of free tshirts, will be 2 if
              sales was greater than 17.50
 91
          } //end freeshirts method
 92
 93
          public static void printOutput (String salesstring, double salesAmount, int
          FreeTShirtNumber) //method for printing output for user
 94
 95
              String receipt = String.format(FORMAT, salesstring, salesAmount); //format
              everything nice and tidy
 96
              System.out.println(receipt); //use java println to print out
 97
              if(FreeTShirtNumber > 0) //check to see if any free tshirts were earned
 98
 99
                  System.out.println("
                                            "+FreeTShirtNumber+" Free Finals are Fun
                  T-Shirt"); //inform user of how many tshirts
100
      //were earned if applicable
101
          } //end printout method
102
103
          //end methods
104
105
      } //end JCarpenterBookStoreOrder
```