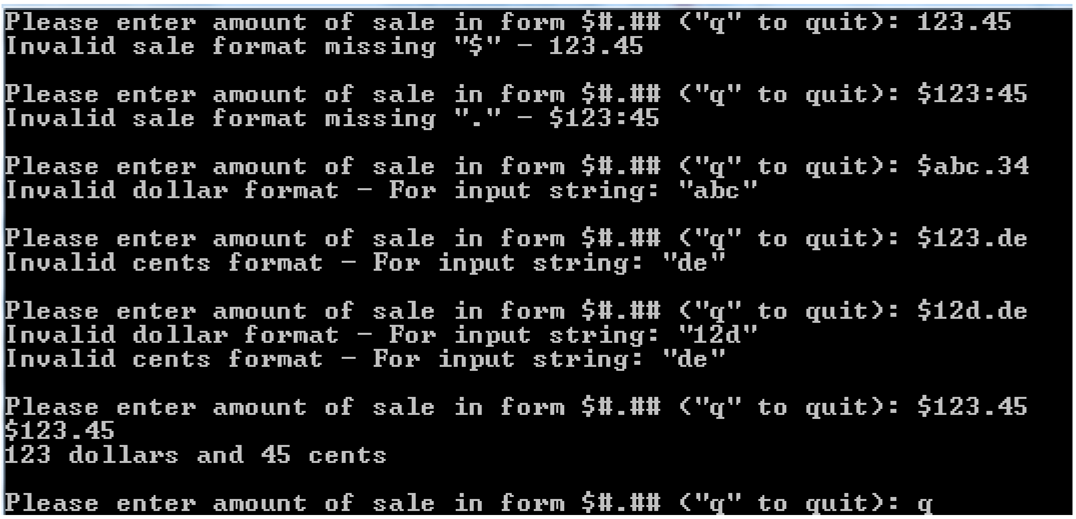
Unit 6 Chapter 15 Assignment

Grading Information: This Program is **due** on **Date Specified**.

Comments are **REQUIRED**; flow charts and pseudocode are **NOT REQUIRED**.

Directions	**Points**
The files must be called <**LiFiUnit6Ch15.java**> **LiFiSaleCheck.java** (Sale Checker Class File) The files must be called as specified above, (LiFi = Your Last Initial Your First Initial) *Proper coding conventions required the first letter of the class start with a capital letter and the first letter of each additional word start with a capital letter*. Only submit the **.java** files needed to make the program run. Do not submit the .**class** files or any other files.	5%
Style Components Include properly formatted prologue, comments, indenting, and other style elements as shown in Chapter 2 starting page 64 and Appendix 5 page 881-892.	5%
Topics covered in chapter Topics with * are covered in this assignment. Ensure you use every item listed below in your completed assignment. *Exceptions and Exception Messages *try / catch *checked and unchecked exceptions *generic catch block *throws	
Basic Requirements Write a program that validates a sale in dollars and cents with a $ and a .(period). See sample output below.	20%
LiFiUnit6Ch15.java • Driver class should loop until “q” is entered to quit • If enter is not “q”, then create an instance of the LiFiSaleCheck object passing the entry as an argument • If no error	10%

o Print amount by calling: ▪ print numeric from LiFiSaleCheck class ▪ print alphabetic from LiFiSaleCheck class • If error o Print error message (see sample)	
LiFiSaleCheck.java class Sales object should store the sale in 2 integer instance variables, dollars and cents, and include a string variable to hold the error. This should be initialized with null. LiFiSaleCheck Constructor: • Receive sale as a string • Perform error checking to ensure time was entered in proper format to include a color (.) between the dollars and cents and a $ at the start of the string. • Use indexOf and substring to separate the sale string into the appropriate instance variables • Use try/catch to catch format errors of dollars and cents as shown in example • If an error occurs, change the error instance variable to reflect the error (see sample) • If more than one error occurs in the format of the dollars and cents, show both. print numeric method: • Print in the format $123.45 using both dollars and cents instance variables • Print in the format 123 dollars and 45 cents using both dollars and cents instance variables print alphabetic method: • Print in the format 123 dollars and 45 cents using both dollars and cents instance variables getError method: • Include a getError method that returns the error instance variable to the print method	30%
NOTE: Complete your activity and submit it by clicking “Submit Assignment”	
Total Percentage	100%
Sample `Your output will vary based on input.`	



```
Please enter amount of sale in form $#.## ("q" to quit): 123.45
Invalid sale format missing "$" - 123.45

Please enter amount of sale in form $#.## ("q" to quit): $123:45
Invalid sale format missing "." - $123:45

Please enter amount of sale in form $#.## ("q" to quit): $abc.34
Invalid dollar format - For input string: "abc"

Please enter amount of sale in form $#.## ("q" to quit): $123.de
Invalid cents format - For input string: "de"

Please enter amount of sale in form $#.## ("q" to quit): $12d.de
Invalid dollar format - For input string: "12d"
Invalid cents format - For input string: "de"

Please enter amount of sale in form $#.## ("q" to quit): $123.45
$123.45
123 dollars and 45 cents

Please enter amount of sale in form $#.## ("q" to quit): q
```