

Seth Denney - std0003

COMP 2710 Lab 3

Compile Instructions and Testing Results/Sample Output

Compile/Run Instructions:

```
>>g++ -o std0003_4 std0003_4.cpp Sale.h Sale.cpp CashSale.h CashSale.cpp CheckSale.h  
CheckSale.cpp CreditCardSale.h CreditCardSale.cpp  
>>./std0003_4
```

A. Invalid Input

i. **Scenario** – While entering a value for a price, sales type, or menu option, the user enters an invalid value (negative price, invalid option, etc.).

ii. **Result** – The program should print an error message and re-prompt.

B. Sale

i. **Scenario** – User chooses Sale option

ii. **Result** – The program should continuously prompt for additional items until the '*' character is entered. The program should then prompt for the type of sale and any other appropriate information, depending on the payment type. The program should finally re-prompt with the menu view.

C. Print Sales

i. **Scenario** – User chooses Print Sales option

ii. **Result** – The program should print out a simple and easily read summary of all completed transactions, and re-prompt with the menu view.

Test 1 - Invalid Input

```
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x): a
Enter payment(p), print sales(s), or exit(x): 1
Enter payment(p), print sales(s), or exit(x): p
Enter item: Apple
Enter amount: $-5
                        Please enter a positive value.
Enter amount: $5
Enter item: *
Subtotal: $5.00
Enter Type of Sale; regular(r), discount(d), or mail-order(m): a
Enter Type of Sale; regular(r), discount(d), or mail-order(m): r
Tax: $0.35
Total: $5.35
Enter payment type; cash(c), check(k), or credit card(d): c
Amount received: $5.34
Amount received: $5.35
Change: $0.00
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x):
```

Test 2 – Sale

```
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x): p
Enter item: Apple
Enter amount: $1.00
Enter item: Orange
Enter amount: $1.50
Enter item: *
Subtotal: $2.50
Enter Type of Sale; regular(r), discount(d), or mail-order(m): r
Tax: $0.18
Total: $2.67
Enter payment type; cash(c), check(k), or credit card(d): c
Amount received: $3
Change: $0.33
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x): p
Enter item: Television
Enter amount: $100
Enter item: *
Subtotal: $100.00
Enter Type of Sale; regular(r), discount(d), or mail-order(m): d
Discount: $10.00
Tax: $6.30
Total: $96.30
Enter payment type; cash(c), check(k), or credit card(d): k
Enter name on the check: Seth Denney
Enter driver's license number: 1234567
```

```
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x): p
Enter item: Smartphone
Enter amount: $299.99
Enter item: *
Subtotal: $299.99
Enter Type of Sale; regular(r), discount(d), or mail-order(m): m
Shipping and Handling: $3.50
Tax: $21.24
Total: $324.73
Enter payment type; cash(c), check(k), or credit card(d): d
Enter name on the credit card: Seth T Denney
Enter credit card number: 1234567812345678
Enter expiration date: 01/13
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x): _
```

Test 3 – Print Sales

```
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x): s
Sale #1:
    1. Apple $1.00
    2. Orange $1.50
    Subtotal: $2.50
    Tax: $0.18
    Total: $2.67
    Amount received: $3.00
    Change: $0.33
Sale #2:
    1. Television $100.00
    Subtotal: $100.00
    Discount: $10.00
    Tax: $6.30
    Total: $96.30
    CHECK: Seth Denney - 1234567
Sale #3:
    1. Smartphone $299.99
    Subtotal: $299.99
    Shipping and Handling: $3.50
    Tax: $21.24
    Total: $324.73
    CREDIT: Seth T Denney - 1234567812345678 - 01/13

End
=====
                        Welcome to the Cash Register App!
=====
Enter payment(p), print sales(s), or exit(x): x

Process returned 0 (0x0)   execution time : 360.627 s
Press any key to continue.
```

Test 4 – User Visits Finish Node