# CST 338 – Fall 2018

# Homework 5

# 1. (20 points) In the homework, you will develop a simple shopping mall program which keeps the customer, product, and order information. For the homework, you have to provide a demo program named OnlineDemo.java and all other classes.

# Sample Execution 1: This is a sample run of your demo program. Your program has to display output messages as below. Again, your demo program, OnlineDemo.java, has to have the main() method to run the whole program. We do not provide any demo program to test your program.

Welcome to CSUMB OnlineStore

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**2**

No customer information.

Welcome to CSUMB OnlineStore

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**5**

No product information.

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**1**

Customer Number: 231 **// Your program should automatically assign a random**

**// number between 100 and 300 as a unique customer**

**// number. In this sample run, your program assigned**

**// “231” as a customer number.**

Customer Name: **Alice**

Customer Added – Alice (# 231)

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**1**

Customer Number: 157

Customer Name: **Bob**

Customer Added – Bob (# 157)

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**1**

Customer Number: 210

Customer Name: **Chris**

Customer Added – Chris (# 210)

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**2**

===== 3 Customers =====

Alice – 231

Bob – 157

Chris – 210

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**7**

Bye!

**Sample Execution 2**: This is another sample run of your demo program.

Welcome to CSUMB OnlineStore

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**3**

Product Number: 555 **// Your program should automatically assign a random**

**// number between 500 and 700 as a unique product number.**

Product Name: **Android Phone**

Product Price: **200.0**

Product Added – Android Phone, No: 555, Price: 200.0

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**3**

Product Number: 700

Product Name: **MacBook**

Product Price: **1999.99**

Product Added – MacBook, No: 700, Price: 1999.99

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**4**

Product number to delete: **554**

Input Error: Product 554 doesn’t exist.

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**4**

Product number to delete: **700**

Product 700 deleted.

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**3**

Product Number: 649

Product Name: **Windows PC**

Product Price: **999.0**

Product Added – Windows PC, No: 649, Price: 999.0

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**5**

Enter product number (or just enter to display all products): **501**

Input Error: Product 501 doesn’t exist.

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**5**

Enter product number (or just enter to display all products): **555**

No: 555 - Android Phone, Price: 200.0

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**5**

Enter product number (or just enter to display all products):

No: 649 – Windows PC, Price: 999.0

No: 555 - Android Phone, Price: 200.0

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**7**

Bye!

**Sample Execution 3**: This is the last sample run of your demo program.

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**1**

Customer Number: 202

Customer Name: **Alice Otter**

Customer Added – Alice Otter (# 202)

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**1**

Customer Number: 101

Customer Name: **Bob Otter**

Customer Added – Bob Otter (# 101)

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**3**

Product Number: 567

Product Name: **Android Phone**

Product Price: **200.0**

Product Added – Android Phone, No: 567, Price: 200.0

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**3**

Product Number: 678

Product Name: **MacBook**

Product Price: **1999.99**

Product Added – MacBook, No: 700, Price: 1999.99

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**3**

Product Number: 649

Product Name: **Windows PC**

Product Price: **999.0**

Product Added – Windows PC, No: 649, Price: 999.0

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**6**

Order Number: 1234 **// Your program should automatically assign a random number**

**// between 1000 and 2000 as a unique order number.**

Type Customer Number: **123**

Input Error: Customer number 123 doesn’t exist.

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**6**

Order Number: 1501

Type Customer Number: **202**

Type Product Number (0 to finish): **567**

Type Product Number (0 to finish): **649**

Type Product Number (0 to finish): **0**

Order Summary – Order Number: 1501, Customer: Alice Otter

Item 1: Android Phone: $200.0

Item 2: Windows PC: $999.0

Total Price: $1199.0

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**6**

Order Number: 1212

Type Customer Number: **101**

Type Product Number (0 to finish): **500**

Input Error: Product 500 does not exist.

Type Product Number (0 to finish): **678**

Type Product Number (0 to finish): **0**

Order Summary – Order Number: 1212, Customer: Bob Otter

Item 1: MacBook (No. 678): $1999.99

Total Price: $1999.99

Select your choice:

1. Add Customer
2. Customer Info
3. Add Product
4. Delete Product
5. Product Info
6. Make Order
7. Exit

**7**

Bye!

# How to turn in?

# Compress all your source files, including your demo program (OnlineDemo.java), into a single ZIP file. Then, turn it on iLearn. You should not use a different compress format such as rar or tar. We accept only a ZIP file.