

YRBOnlineStore Manual

First Name: Zamir

Last Name: Lalji

Professor: Nasim Razavi

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EECS 3421B

(Please note: Since I redid the whole project from scratch I wasn't able to get all the pictures as I believe the server has been close and I was getting errors so I re-used my pictures from my old file but the concept is the same for the program. Also the name of the screenshots are different b/c I re-did the program)

Note to start the application use any ssh such as putty or mobaxterm. For putty do the following:

```

redcse.yorku.ca - PuTTY
red 325 % cd
red 326 % ls
2021.zip      C01as02.asm    EECS2030      19.c          LabL2.v        myscript       qb22.c-       team.txt
a             CIPA.pdf       eeecs2030 1   lab           LabL3.v        myscript0     qb32.c        Templates
al           code2.c        EECS2031      lab0          LabL4.v        myscriptoffile qb32.c-       Test3b
al.c         compress.c     EECS3221      lab2.jar      LabL4.v-       numbers.txt    question2.zip test3b.zip
al.c-        cpu.v          EECS3421      Lab2.pdf     LabL5.v        numbers.txt-   question3.zip text(1).txt
al.pdf       cpu.v-         EECS 3421.pdf lab_3_1.sh    LabL6.v        p4a           ram.dat       text.txt
a2_1.c       CRead.c        example1.txt  lab_3_1.sh-   LabL7.v        p4b           ran           tmp
a2_1.c-      create.sql     example2.txt  lab_3_2.sh    LabL7.v        ph1.sed       random        Videos
a2.c         csel020       example3.txt  lab_3_3.sh    LabL5.v        ph2.sed       random.c      workspace
a2.dd1       D01as01.a     example4.txt  LabN          LabN           phil          ran.txt       www
a2.sql       D01as01.asm   example5.txt  LabB01        LabN           phil.c        readR.c       yAdder1.v
A2.zip       D1.txt        example6.txt  LabBReport.pdf labn4.v        philosophers  Reflection.pdf yAdder.v
al7.c        D2.txt        file          LabCReport.pdf LabK7.v        Makefile.txt  ph.sed        yAlu.v
al7.c-       Desktop       fveeecs2021labd.zip LabK9.v        Model.java-   Pictures      rs.zip        yArith.v
a.out        Downloads     homepage.html in162.txt     LabL           modules.v     Project       yMux1.v
Assignment2.class eclipse-workspace 121.sh        LabL01        mort.c        q21.sh        schema.pdf    yMux2.v
Assignment2.java eeecs         122.sh        LabL10.v      Mort.c-       qb21.c        simple.c      yMux4tol.v
attachments(1).zip eeecs         123.sh        LabL11.v      Music          qb21.c        Stewart Calculus 7 Edition (Solutions Manual Chapters 1-11).pdf yMux.v
bas5a.asm    eeecs2021     12.c          LabL11.v-     mycalc.sh     qb22.c        string.c       yrb_create.txt
bex1c       eeecs2030     162.c         LabL1.v        yrb_query.sql t1.txt        yrb_query.sql
red 327 % cd p4b
red 328 % ls
Manual for YRBApp.docx project 4.docx project 4.pdf yrbapp.class yrbapp.java yrb.class
red 329 % javac yrbapp.java
red 330 % java yrbapp
Please enter your customer ID:

```

Program in action:

```

red 310 % javac yrbapp.java
red 311 % java yrbapp
Please enter your customer ID:
Exception in thread "main" java.lang.NumberFormatException: For input string: "
"
    at java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)
    at java.lang.Integer.parseInt(Integer.java:569)
    at java.lang.Integer.parseInt(Integer.java:615)
    at yrb.findCustomer(yrb.java:284)
    at yrb.<init>(yrb.java:95)
    at yrbapp.main(yrbapp.java:261)
red 312 % 4.0
4.0: Command not found.
red 313 % java yrbapp
Please enter your customer ID: 4.0
Exception in thread "main" java.lang.NumberFormatException: For input string: "4.0"
    at java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)
    at java.lang.Integer.parseInt(Integer.java:580)
    at java.lang.Integer.parseInt(Integer.java:615)
    at yrb.findCustomer(yrb.java:284)
    at yrb.<init>(yrb.java:95)
    at yrbapp.main(yrbapp.java:261)
red 314 % java yrbapp
Please enter your customer ID: f
Exception in thread "main" java.lang.NumberFormatException: For input string: "f"
    at java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)
    at java.lang.Integer.parseInt(Integer.java:580)
    at java.lang.Integer.parseInt(Integer.java:615)
    at yrb.findCustomer(yrb.java:284)
    at yrb.<init>(yrb.java:95)
    at yrbapp.main(yrbapp.java:261)
red 315 % java yrbapp
Please enter your customer ID: 99
Incorrect ID provided. Not in database. Please enter correct customer ID: -1
Incorrect ID provided. Not in database. Please enter correct customer ID: 0
Incorrect ID provided. Not in database. Please enter correct customer ID: 4
ID: 4 Name: Bury Red City: Williamburg, NY
Would you like to update the customer information? (Y/N)

```

Here the program starts and a standard int input. We can see it throws exception when a space, real number, and char. For 99. -1 and 0, it does query but database returns invalid entry. Finally, we can see the user saying no to the input and trying again.

```
redcseyorku.ca - PuTTY

The categories are displayed below:
children
cooking
drama
guide
history
horror
humor
mystery
phil
romance
science
travel

Please choose a category:
exit

That category choice does not exist. Try again. The categories are displayed below:
children
cooking
drama
guide
history
horror
humor
mystery
phil
romance
science
travel

Please choose a category:
exit

That category choice does not exist. Try again. The categories are displayed below:
children
cooking
drama
guide
history
horror
humor
mystery
phil
romance
science
travel
```

As seen from this screen shot, when the use enters “exit” it gives a message saying category choice does not exist and then lists the categories that you can choose from.

```
redcseyorku.ca - PuTTY

ID: 4 Name: Suzy Sed City: Williamburg, NY
Would you like to update the customer information? (Y/N)
n
Ok, then let's move on.

The categories are displayed below:
children
cooking
drama
guide
history
horror
humor
mystery
phil
romance
science
travel

Please choose a category:
cooking

Category cooking is selected.
Here are the books in the category cooking:
Recipes for Humans
Vegetables are Good!
Tampopo Gishii
Radiator Barbecueing
Food for Dummies
Ringo to Nashi
Aubergines!
Nothing but Steak
Yum, Yum, English Cooking
Cuisine Anglaise!?
Rabbits are Nice
The Pickle Pickle

Choose a book based on the title from the list.
Vegetables are Good!

Listing # 1:
Title: Vegetables are Good! Year: 1987 Language: English Weight: 292

Enter the listings number of the book you wish to buy:
1

The minimum price available with your current memberships for that book is: $25.95

Enter the amount of this title you would like to buy:
3
```

```
redcseyorku.ca - PuTTY
drama
guide
history
horror
humor
mystery
phil
romance
science
travel

Please choose a category:
cooking

Category cooking is selected.
Here are the books in the category cooking:
Recipes for Humans
Vegetables are Good!
Tampopo Oishii
Radiator Barbecuing
Food for Dummies
Ringo to Nashi
Aubergines!
Nothing but Steak
Yum, Yum, English Cooking
Cuisine Anglaise!
Rabbits are nice
The Pickle Pickle

Choose a book based on the title from the list.
Vegetables are Good!

Listing # 1:
Title: Vegetables are Good! Year: 1987 Language: English Weight: 292

Enter the listings number of the book you wish to buy:
1

The minimum price available with your current memberships for that book is: $25.95

Enter the amount of this title you would like to buy:
3

The total price of your purchase is $77.85.
Would you like to make this purchase? Please respond Y/N
Y

TRANSACTION SUCCESSFUL. Here are the details:
Customer ID: 4 Club: Oprah Title: Vegetables are Good! Year: 1987 Quantity: 3 Price: $77.85
Good bye!
red 323 %
```

As seen from the screenshot above the user was asked to enter the customer name and if it wanted to update it but user choose not to update so then it when thru the process of loading and buying the book the user the wanted with the price and quantity of the books it wanted.

```
redcseyorku.ca - PuTTY
Would you like to update the customer information? (Y/N)
Y
Great! Let's proceed to update your info.

Please enter your new name:
Eamir Lalji

Please enter your new city:
Toronto
Info updated! Here is the new official info:
ID: 3 Name: Eamir Lalji City: Toronto

The categories are displayed below:
children
cooking
drama
guide
history
horror
humor
mystery
phil
romance
science
travel

Please choose a category:
science

Category science is selected.
Here are the books in the category science:
Tensor Calculus made Easy
Pluto Collides With Mars
Quarks and Other Matter
Transmorgification
Rats Like Us
Databases made Real Hard
Eigen Eigen
SQL Kills!
Dogs are not Cats
Math is fun!
Cats are not Dogs
Chats ne sont pas Chiens
Quantum Databases

Choose a book based on the title from the list.
Rats Like Us

Listing # 1:
```

```
redcse.yorku.ca - PuTTY
Please choose a category:
science

Category science is selected.
Here are the books in the category science:
Tensor Calculus made Easy
Pluto Collides With Mars
Quarks and Other Matter
Transmogrification
Rats Like Us
Databases made Real Hard
Eigen Eigen
SQL Kills!
Dogs are not Cats
Math is fun!
Cats are not Dogs
Chats ne sont pas Chiens
Quantum Databases

Choose a book based on the title from the list.
Rats Like Us

Listing # 1:
Title: Rats Like Us Year: 1993 Language: English Weight: 880

Enter the listings number of the book you wish to buy:
2
That is not a valid choice.

Enter the listings number of the book you wish to buy:
3
That is not a valid choice.

Enter the listings number of the book you wish to buy:
1

The minimum price available with your current memberships for that book is: $80.95

Enter the amount of this title you would like to buy:
-1
Incorrect value entered for quantity. Please enter value of at least 1. 1
The total price of your purchase is $80.95.
Would you like to make this purchase? Please respond Y/N
Y

TRANSACTION SUCCESSFUL. Here are the details:
Customer ID: 3 Club: AARP Title: Rats Like Us Year: 1993 Quantity: 1 Price: $80.95
Good bye!
red 324 %
```

Screen shots above show that the user is updating the custID with a new one. You can also see when it prompts the user to “enter number of book it wants to buy when the user entered 2, 3, it says “this is not a valid choice” but when the user enters the right choice it moves on to prompt the user for another question. When it ask user to “Enter amount of title you want to buy” when the user entered -1 it says ‘Incorrect value entered please enter again’ Then when the user enters the current value everything goes as supposed to and then displays the purchase the user made and then a greeting message at the end which ends the program.

```
redcseyorku.ca - PuTTY
red 325 % connect to c3421a
connect: Command not found.
red 326 % db2 connect to c3421a

Database Connection Information

Database server      = DB2/LINUXS8664 11.1.1
SQL authorization ID = KAMIR13
Local database alias = C3421A

red 327 % db2

(c) Copyright IBM Corporation 1993,2007
Command Line Processor for DB2 Client 11.1.0

You can issue database manager commands and SQL statements from the command
prompt. For example:
    db2 => connect to sample
    db2 => bind sample.bnd

For general help, type: ?
For command help, type: ? command, where command can be
the first few keywords of a database manager command. For example:
? CATALOG DATABASE for help on the CATALOG DATABASE command
? CATALOG          for help on all of the CATALOG commands.

To exit db2 interactive mode, type QUIT at the command prompt. Outside
interactive mode, all commands must be prefixed with 'db2'.
To list the current command option settings, type LIST COMMAND OPTIONS.

For more detailed help, refer to the Online Reference Manual.

db2 => select * from yrb_purchase where cid = 4

CID  CLUB      TITLE      YEAR  WHEN      QNTY
-----
4 Oprah  Chats ne sont pas Chiens  1992  2001-06-30-13.58.00.000000  1
4 Oprah  Eigen Eigen              1980  2001-08-11-17.40.00.000000  1
4 Oprah  Food for Dummies        2000  2001-06-30-13.58.00.000000  1
4 Oprah  Rigor Mortis            1023  2001-06-30-13.58.00.000000  1
4 Oprah  Vegetables are Good!     1987  2019-12-02-23.09.36.000000  3
4 VaTech Club Nippon no Joodan        1997  2019-12-02-23.06.33.000000  4
4 YRB Silver Are my feet too big?    1989  2000-06-13-09.45.00.000000  1

7 record(s) selected.

db2 =>
```

Here we can see default entry for above customer provided by yrb-create file and query made after the program was run and the purchase was inserted into the table.

Tools used in the program:

java.sql.*;

java.util.*;

All these tools import the needed sql statements and files needed for the java program to run properly.