/\*

\* @(#)OballeEscarenoA002PA1.java

\* @Author Aldo Oballe-Escareno

\* @verison 1.00 6/24/22 1:25 PM

\*

\* PROGRAM PURPOSE: Create a program that accepts a customer's orders for hammocks.

\* The customer gets a discount based on the order total (size). A sales receipt

\* will be generated.

\*/

import java.util.Scanner; // Class that will capture input

import java.util.Calendar; // Class that will get the date and time

public class OballeEscarenoA002PA1

{

/\*

\* Customers will be asked for a hammock choice based on small, medium, or large;

\* the quantity or hammock size; and the color. An itemTotal is calculated for a

\* selection, followed by a subtotal. Based on the subtotal a discount is derived,

\* then the subtotal is re-calculated with the discount. The sales tax is based on

\* the discounted subtotal. A total for the sale is finalized and the sales receipt

\* is printed.

\*/

public static void main(String[] args)

{

int hammock = 0,

quantity = 0,

color = 0,

iterations = 1;

double itemTotal = 0.0,

subtotal = 0.0,

discount = 0.0,

discSubtotal = 0.0,

tax = 0.0,

total = 0.0,

price = 0.0;

java.util.Scanner input = new Scanner(System.in);

Calendar dateTime = Calendar.getInstance();

char cont = 'y';

String hammockDesc = "", colorSelected = "";

String salesReceipt = String.format("%n%nSALES RECEIPT"

+ "%n%nLAZY HAZY DAYS, INC."

+ "%nHuebner Oaks Mall"

+ "%nSan Antonio, TX"

+ "%n%nDate: %tD"

+ "%nTime: %tr%n", dateTime, dateTime);

while(cont == 'y')

{

System.out.printf("%nLAZY HAZY DAYS, INC." // PROMPT 1

+ "%n%nOur beautiful cotton hammocks sport a "

+ "traditional look and are very comfortable. "

+ "%n%n1. Small - 48 in. x 11 ft. - Good for 1 person "

+ "\t\t\t\t$100.00"

+ "%n2. Large - 55 in. x 13 ft. - Good for 2 "

+ "people\t\t\t\t$140.00"

+ "%n3. Deluxe - 60 in. x 13 ft. - Good for 2 or "

+ "more people\t\t\t$175.00"

+ "%n%nEnter your choice: "); //END OF PROMPT 1

hammock = input.nextInt(); //TO CAPTURE WHAT'S COMING IN TO THE KEYBOARD AS AN INTEGER

if(hammock == 1)

{

hammockDesc = "Small - 48 in. x 11 ft.";

price = 100.00;

}

else

{

if(hammock == 2)

{

hammockDesc = "Large - 55 in. x 13 ft.";

price = 140.00;

}

else

{

if(hammock == 3)

{

hammockDesc = "Deluxe - 60 in. x 13 ft.";

price = 175.00;

}

else

{

System.out.printf("%nInvalid hammock choice!%n");

hammockDesc = "Invalid hammock";

price = 0.0;

}//END if hammock is 3 else invalid hammock choice

}//END if hammock is 2 else hammock is 3

}//END if hammock is 1 else hammock is 2

//INSERT PROMPTS 2 AND 3

{

System.out.printf("%n%nEnter the quantity: ");// PROMPT 2 PROMPTS FOR THE NUMBER OF HAMMOCKS TO ORDER

quantity = input.nextInt(); // Capturing what's coming in to the keyboard as an Integer

}

{

//PROMPT 3

System.out.printf("%n%n1. Crimson Red"

+ "%n2. Emerald Green"

+ "%n3. Indigo Blue"

+ "%n4. Natural"

+ "%n5. Purple Haze"

+ "%nEnter your choice of colors: ");

color = input.nextInt(); // Capture the color choice

//TEST FOR COLORS USING IF-ELSES

if(color == 1)

{

colorSelected = "Crimson Red";

}

else

{

if(color == 2)

{

colorSelected = "Emerald green";

}

else

{

if(color == 3)

{

colorSelected = "Indigo Blue";

}

else

{

if(color == 4)

{

colorSelected = "Natural";

}

else

{

if(color == 5)

{

colorSelected = "Purple Haze";

}

else

{

colorSelected = "Invalid color!";

}

}// END IF HAMMOCK COLOR IS 5 ELSE COLOT IS INVALID

}//END IF HAMMOCK COLOR IS 4 ELSE COLOR IS 5

}//END IF HAMMOCK COLOR IS 3 ELSE COLOR IS 4

}//END IF HAMMOCK COLOR 2 ELSE COLOR IS 3

}// END IF HAMMOCK COLOR 1 ELSE COLOR IS 2

{itemTotal = quantity \* price; // Calculation 1

subtotal += itemTotal; // Calculaton 2

//CODE IF-ELSES TESTING DISCOUNT RANGES

if(subtotal >= 100000.00)

{

discount = subtotal \* .035; // CALCULATION 3

}

else

{

if(subtotal >= 50000.00)

{

discount = subtotal \* .03; // CALCULATION 4

}

else

{

if(subtotal >= 10000.00)

{

discount = subtotal \* .025; // CALCULATION 5

}

else

{

if(subtotal >= 5000.00)

{

discount = subtotal \* 0.2; // CALCULATION 6

}

else

discount = 0.0; // ELSE NO DISCOUNT

}//END IF SUBTOTAL IS GREATER THEN OR EQAUL TO 5000.00 THEN CALC 6

}//END IF SUBTOTAL IS GREATER THAN OR EQUAL TO 10000.00 THEN CALC 5

}//END IF SUBTOTAL IS GREATER OR EQUAL TO 50000.00 THEN CALC 4

}//END IF SUBTOTAL IS GREATER THAN OR EQUAL TO 100000.00 THEN CALC 3

salesReceipt += String.format("%n%-24s %c %-13s %5s %,7d %4s %s%,14.2f",

hammockDesc, '-', colorSelected, " ",

quantity, " ", iterations > 1 ? " " : "$",

itemTotal);

//INCREMENT iterations VARIABLE

iterations += 1;

//PROMPT 4 TO ASK FOR ADDITIONAL HAMMOCKS

{

System.out.printf("%n%nDo you want to add another hammock? Enter 'Y' or 'N': ");

cont = input.next().charAt(0);

}

}// END while cont is 'y'

//INSERT CALCULATIONS FOR discSubtotal, tax, and total

discSubtotal += subtotal - discount;

tax = discSubtotal \* .0825;

total = discSubtotal + tax;

// SALES RECEIPT

System.out.printf("%s"

+ "%n%n%52s %-6s $%,14.2f"

+ "%n%52s %-7s %,14.2f"

+ "%n%52s %-7s %,14.2f"

+ "%n%n%52s %-6s $%,14.2f",

salesReceipt, "SUBTOTAL:", " ",

subtotal, "DISCOUNT:", " ",

discount, "TAX @ 8.250%:",

" ", tax, "TOTAL:", " ", total);

System.exit(0);

}//END main()

}//END APPLICATION CLASS OballeEscarenoAL002PA1

// SAMPLE OUTPUT

/\*

\*

\* Low quatity - hammock sales

\*

LAZY HAZY DAYS, INC.

Our beautiful cotton hammocks sport a traditional look and are very comfortable.

1. Small - 48 in. x 11 ft. - Good for 1 person $100.00

2. Large - 55 in. x 13 ft. - Good for 2 people $140.00

3. Deluxe - 60 in. x 13 ft. - Good for 2 or more people $175.00

Enter your choice: 1

Enter the quantity: 2

1. Crimson Red

2. Emerald Green

3. Indigo Blue

4. Natural

5. Purple Haze

Enter your choice of colors: 4

Do you want to add another hammock? Enter 'Y' or 'N': y

LAZY HAZY DAYS, INC.

Our beautiful cotton hammocks sport a traditional look and are very comfortable.

1. Small - 48 in. x 11 ft. - Good for 1 person $100.00

2. Large - 55 in. x 13 ft. - Good for 2 people $140.00

3. Deluxe - 60 in. x 13 ft. - Good for 2 or more people $175.00

Enter your choice: 2

Enter the quantity: 100

1. Crimson Red

2. Emerald Green

3. Indigo Blue

4. Natural

5. Purple Haze

Enter your choice of colors: 2

Do you want to add another hammock? Enter 'Y' or 'N': y

LAZY HAZY DAYS, INC.

Our beautiful cotton hammocks sport a traditional look and are very comfortable.

1. Small - 48 in. x 11 ft. - Good for 1 person $100.00

2. Large - 55 in. x 13 ft. - Good for 2 people $140.00

3. Deluxe - 60 in. x 13 ft. - Good for 2 or more people $175.00

Enter your choice: 3

Enter the quantity: 50

1. Crimson Red

2. Emerald Green

3. Indigo Blue

4. Natural

5. Purple Haze

Enter your choice of colors: 5

Do you want to add another hammock? Enter 'Y' or 'N': n

SALES RECEIPT

LAZY HAZY DAYS, INC.

Huebner Oaks Mall

San Antonio, TX

Date: 07/03/22

Time: 10:10:33 AM

Small - 48 in. x 11 ft. - Natural 2 $ 200.00

Large - 55 in. x 13 ft. - Emerald green 100 14,000.00

Deluxe - 60 in. x 13 ft. - Purple Haze 50 8,750.00

SUBTOTAL: $ 22,950.00

DISCOUNT: 573.75

TAX @ 8.250%: 1,846.04

TOTAL: $ 24,222.29

\* HAMMOCK SALES - LARGE QUANTITY

\*

\*

LAZY HAZY DAYS, INC.

Our beautiful cotton hammocks sport a traditional look and are very comfortable.

1. Small - 48 in. x 11 ft. - Good for 1 person $100.00

2. Large - 55 in. x 13 ft. - Good for 2 people $140.00

3. Deluxe - 60 in. x 13 ft. - Good for 2 or more people $175.00

Enter your choice: 1

Enter the quantity: 100000

1. Crimson Red

2. Emerald Green

3. Indigo Blue

4. Natural

5. Purple Haze

Enter your choice of colors: 4

Do you want to add another hammock? Enter 'Y' or 'N': y

LAZY HAZY DAYS, INC.

Our beautiful cotton hammocks sport a traditional look and are very comfortable.

1. Small - 48 in. x 11 ft. - Good for 1 person $100.00

2. Large - 55 in. x 13 ft. - Good for 2 people $140.00

3. Deluxe - 60 in. x 13 ft. - Good for 2 or more people $175.00

Enter your choice: 2

Enter the quantity: 10000

1. Crimson Red

2. Emerald Green

3. Indigo Blue

4. Natural

5. Purple Haze

Enter your choice of colors: 1

Do you want to add another hammock? Enter 'Y' or 'N': y

LAZY HAZY DAYS, INC.

Our beautiful cotton hammocks sport a traditional look and are very comfortable.

1. Small - 48 in. x 11 ft. - Good for 1 person $100.00

2. Large - 55 in. x 13 ft. - Good for 2 people $140.00

3. Deluxe - 60 in. x 13 ft. - Good for 2 or more people $175.00

Enter your choice: 3

Enter the quantity: 1000

1. Crimson Red

2. Emerald Green

3. Indigo Blue

4. Natural

5. Purple Haze

Enter your choice of colors: 5

Do you want to add another hammock? Enter 'Y' or 'N': n

SALES RECEIPT

LAZY HAZY DAYS, INC.

Huebner Oaks Mall

San Antonio, TX

Date: 07/03/22

Time: 10:18:26 AM

Small - 48 in. x 11 ft. - Natural 100,000 $ 10,000,000.00

Large - 55 in. x 13 ft. - Crimson Red 10,000 1,400,000.00

Deluxe - 60 in. x 13 ft. - Purple Haze 1,000 175,000.00

SUBTOTAL: $ 11,575,000.00

DISCOUNT: 405,125.00

TAX @ 8.250%: 921,514.69

TOTAL: $ 12,091,389.69

\*

\* ERROR MESSAGES

LAZY HAZY DAYS, INC.

Our beautiful cotton hammocks sport a traditional look and are very comfortable.

1. Small - 48 in. x 11 ft. - Good for 1 person $100.00

2. Large - 55 in. x 13 ft. - Good for 2 people $140.00

3. Deluxe - 60 in. x 13 ft. - Good for 2 or more people $175.00

Enter your choice: 4

Invalid hammock choice!

Enter the quantity: 0

1. Crimson Red

2. Emerald Green

3. Indigo Blue

4. Natural

5. Purple Haze

Enter your choice of colors: 7

Do you want to add another hammock? Enter 'Y' or 'N': N

SALES RECEIPT

LAZY HAZY DAYS, INC.

Huebner Oaks Mall

San Antonio, TX

Date: 07/03/22

Time: 10:22:05 AM

Invalid hammock - Invalid color! 0 $ 0.00

SUBTOTAL: $ 0.00

DISCOUNT: 0.00

TAX @ 8.250%: 0.00

TOTAL: $ 0.00

\*/