Adam Cox

6)8

7)

A)10-7/(6.0-4) ⇨ 10-7/(2.0) ⇨ 10-3.5 ⇨ 6.5

B)8+10\*++2/20 ⇨ 8+10\*3/20 ⇨ 8+30/20 ⇨ 8+1⇨9

C)10+2-- ⇨ 10+2 ⇨ 12

D)10+(5)%9 ⇨ 10+5 ⇨ 15

E)Error due to trying to convert a double to an int

8)

A)”hi”+(3+4) ⇨ “hi”+7 ⇨ hi7

B)”hi”+3+4⇨”hi3”+4⇨”hi34”

C)”hi”+’!’+”\””⇨”hi!”+”\”” ⇨hi!\

D)3+’m’⇨3+109⇨112

E)’8’+9⇨56+9⇨65

9)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Line | a | b | c | Output |
| 1 | 2 |  |  |  |
| 2 |  | false |  |  |
| 4 | 3 | false | false |  |
| 5 | 2 | true |  |  |
| 6 |  | false |  |  |
| 7 | 3 | false | false | 3 false false |

public static void main(String args[])

{

Scanner stdIn = new Scanner(System.in);

int selection; // user selected shirt

String[] shirts = new String[] {

"Make America Great Again", "Build the Wall!",

"Drain the Swamp", "I like Liz!",

"I've got a plan for that", "Medicare for All"

};

ShirtShoppingCart sc = new ShirtShoppingCart();

System.out.printf(

"UNCLE SAM'S SHIRT SHOP \u2122 \n\n" +

"All shirts are $%.2f each, but today only, large" +

" and extra-large shirts are on sale for $%.2f.\n",

ShirtShoppingCart.STANDARD\_PRICE,

ShirtShoppingCart.SALE\_PRICE);

System.out.println("Here are the shirts:");

// Display the shirts

for (int i=0; i<shirts.length; i++)

{

System.out.println(i+1 + ") " + shirts[i]);

}

do

{

System.out.print("\nTo select a shirt, enter 1-" +

shirts.length + " (0 to checkout): ");

selection = stdIn.nextInt();

if (selection < 0 || selection > shirts.length)

{

System.out.println("Invalid input.");

}

else if (selection != 0)

{

sc.addToCart(shirts[selection-1]);

}

} while (selection != 0);

sc.checkOut();

} // end main

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* ShirtShoppingCart.Java

\* <Adam Cox>

\*

\* This program adds a selected shirt and allows user to select size.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

import java.util.\*;

public class ShirtShoppingCart

{

public enum Size

{

SMALL, MEDIUM, LARGE, EXTRA\_LARGE

} // Sizes of Shirts

public final static double STANDARD\_PRICE = 10.00; // S&M Shirt price

public final static double SALE\_PRICE = 5.00; // L&XL SHirt Price

private ArrayList<String> shirts = new ArrayList<>(); // List of shirts purchased

private double totalcost = 0.00; // Cost of all shirts

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// adds shirt design, size and cost

public void addToCart(String shirtTitle)

{

Size sizer; // Gets Shirt size

sizer = getShirtSize();

shirts.add(shirtTitle);

switch (sizer) // Shows shirts size & adds to cart

{

case SMALL: case MEDIUM:

System.out.println("Your shirt size is: " + sizer);

totalcost += STANDARD\_PRICE;

break;

case LARGE: case EXTRA\_LARGE:

System.out.println("Your shirt size is: " + sizer);

totalcost += SALE\_PRICE;

break;

} // end of switch

System.out.println("\"" + shirtTitle + "\" added to your cart.");

} // end of addToCart

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// Helper that returns shirt size

public Size getShirtSize()

{

Scanner stdIn = new Scanner(System.in);

int selectSize; // User selected size

System.out.print("Enter chest measurement of the person the shirt is for: ");

selectSize = stdIn.nextInt();

if (selectSize >= 42)

{

return Size.EXTRA\_LARGE;

}

else if (selectSize >= 40)

{

return Size.LARGE;

}

else if (selectSize >= 38)

{

return Size.MEDIUM;

}

else

{

return Size.SMALL;

}

} // end of getShirtSize

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// This runs a checkout

public void checkOut()

{

if (totalcost == 0.0)

{

System.out.println("Thanks for checking out our site.\u2764");

}

else

{

System.out.println("You selected:\n");

for (String shirt : shirts) // Displays shirt's writing

{

System.out.println(shirt);

}

System.out.printf("-".repeat(28) + "\nYour total is: $%,.2f%n\nThank you for "

+ "shopping at Uncle Sam's Shirt Shop\u2122!", totalcost);

} // end else

} // end of checkOut

} // end of ShirtShoppingCart

UNCLE SAM'S SHIRT SHOP™

All shirts are $10.00 each, but today only, large and extra-large shirts are on sale for $5.00.

Here are the shirts:

1) Make America Great Again

2) Build the Wall!

3) Drain the Swamp

4) I like Liz!

5) I've got a plan for that

6) Medicare for All

To select a shirt, enter 1-6 (0 to checkout): 0

Thanks for checking out our site.❤

UNCLE SAM'S SHIRT SHOP™

All shirts are $10.00 each, but today only, large and extra-large shirts are on sale for $5.00.

Here are the shirts:

1) Make America Great Again

2) Build the Wall!

3) Drain the Swamp

4) I like Liz!

5) I've got a plan for that

6) Medicare for All

To select a shirt, enter 1-6 (0 to checkout): 3

Enter chest measurement of the person the shirt is for: 44

Your shirt size is: EXTRA\_LARGE

"Drain the Swamp" added to your cart.

To select a shirt, enter 1-6 (0 to checkout): 2

Enter chest measurement of the person the shirt is for: 30

Your shirt size is: SMALL

"Build the Wall!" added to your cart.

To select a shirt, enter 1-6 (0 to checkout): 8

Invalid input.

To select a shirt, enter 1-6 (0 to checkout): 0

You selected:

Drain the Swamp

Build the Wall!

----------------------------

Your total is: $15.00

Thank you for shopping at Uncle Sam's Shirt Shop™!