

Error Log Entry

What error message did you encounter (if any)?

For this program I was kind of confused on how to execute some of the code. For example, in the beginning I was stuck on just how or where to start. After I prompted and asked a little help from the teacher and ChatGPT, it became way easier. Then towards the end of the code, I began experiencing errors regarding how to display the rounded total amount.

What unexpected behavior did your program exhibit?

When I tried the incorrect code, the program would initially run smoothly but when it came to displaying the total amount the order comes to, a bunch of red text indicating an error would keep popping up

What caused the issue? (e.g., syntax error, logic error, incorrect function usage, etc.)

This issue was caused by incorrect function usage. I was trying to implement String.format() the wrong way and I didn't understand that it returns a string not a double. It wasn't a logic error - it was mainly misunderstanding the proper syntax and how format using this method worked

```
Include a screenshot of specific lines of code
System.out.print("Your order comes to: $" + $%.2f + total);
```

The screenshot shows a stack trace from Java's standard library. The error occurred at line 1367 of PrintStream.java, specifically in the format method. The stack trace includes frames from java.base/java.io.PrintStream.implFormat, java.base/java.io.PrintStream, and java.base/java.io.PrintStream.print. The error message is "Exception in thread "main" java.util.MissingFormatArgumentException".

How did you fix the issue?

I prompted ChatGPT to help me format it right and make me understand just what the function String.format() does. After using the correct syntax, the program displayed the rounded total properly

Provide the corrected code or solution using a screenshot.

```
System.out.print("Your order comes to: $" + String.format("%.2f", total));
```

COMPLETE CODE + RUN:

```
package Mastery;
import java.util.Scanner;
public class FoodTester {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner input = new Scanner(System.in);

        Food Hamburger = new Food(1.0, 9.33, 1);
        Food Salad = new Food(2.0, 1.11, 5);
        Food FrenchFries = new Food(3.0, 11.33, 4);
        Food Soda = new Food(0.5, 0.5, 0);

        System.out.print("Enter number of hamburgers: ");
        int numH = input.nextInt();
        System.out.println("Each hamburger has: " +
            "1.0g of fat, " +
            "33.0g of carbs, 1.0g of fiber.");
        System.out.print("Each number of salads: ");
        int numSalad = input.nextInt();
        System.out.println("Each salad has: " +
            "1.0g of fat, 11.0g of carb, 5.0g of fiber.");
        System.out.print("Each number of fries: ");
        int numF = input.nextInt();
        System.out.println("French Fries have 11.0g of fat, 36.0g of carb, 4.0g of fiber.");
        System.out.print("Each number of sodas: ");
        int numSoda = input.nextInt();
        System.out.println("Each Soda has: 0.0g of fat, 30.0g of carb, 0.0g of fiber.");

        double total = (Hamburger.getPrice() * numH) + (Salad.getPrice() * numSalad) + (FrenchFries.getPrice() * numF) + (Soda.getPrice() * numSoda);
        System.out.print("Your order comes to: $" + String.format("%.2f", total));
    }
}

Enter number of hamburgers: 3
Each hamburger has 9.0g of fat, 33.0g of carbs, 1.0g of fiber.
Each number of salads: 4
Each salad has 1.0g of fat, 11.0g of carb, 5.0g of fiber.
Each number of fries: 2
French Fries have 11.0g of fat, 36.0g of carb, 4.0g of fiber.
Each number of sodas: 5
Each soda has 0.0g of fat, 30.0g of carb, 0.0g of fiber.
Your order comes to: $26.90
```