

ReflectionLogs - LunchOrder[Mastery]

```
import java.text.DecimalFormat;

public class LunchOrder {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner input = new Scanner(System.in);
        // import for user input

        DecimalFormat format = new DecimalFormat("#.##"); //

        //Setting the parameters
        Food burgers = new Food("burger", 1.85, 9, 33, 1);
        Food fries = new Food("fries", 1.3, 11, 36, 4);
        Food salads = new Food("salads", 2, 1, 11, 5);
        Food sodas = new Food("soda", 0.95, 9, 33, 1);
    }
}
```

```
package Mastery;

public class Food {

    public static double order;
    public String itemNa;
    public int fat, fiber, carb;

    public Food(String item, double price, int fats, int carbs, int fibers) {

        order = price;
        itemNa = item;
        fat = fats;
        fiber = fibers;
        carb = carbs;
    }
}
```

So far I created two classes, one for food which will be where the calculations are done, and the other as lunch order where everything will be printed. So far in the main method, which is in class Lunch Order, I imported the necessary components for user input and proper number formatting. Along with that I set a variable which will be called later using its parameters which are linked to the food object in class food. The Food object contains declared variables for order, item name, fat, etc, which will be used later to print the output.

```

int burger, salad, Ff, soda;

System.out.println("Enter the number of hamburgers you want: ");
burger = input.nextInt();
System.out.println(burgers.toString());

System.out.println("Enter the number of salad you want: ");
salad = input.nextInt();
System.out.println(salads.toString());

System.out.println("Enter the number of FF you want: ");
Ff = input.nextInt();
System.out.println(fries.toString());

System.out.println("Enter the number of soda you want: ");
soda = input.nextInt();
System.out.println(sodas.toString());

```

```

public String toString() {
    String information;
    information = "Each " + itemNa + " has " + fat + "g of fat, " + carb + "g of carbs, and " + fiber + "g of fiber.";
    return information; //returns
} //this returns

```

Now I added what will prompt the user how many hamburgers they want. They will enter a value, and then the program will go to the Food class, look at the formatting, and call the parameters set earlier, and print them as formatted in the constructor method, toString(). This returns the information, and prints out the grams of fat, carbs, and fiber for each food.

```
public static double getPrice(double burger, double FF, double salad, double soda) {  
  
    order = burger * 1.85;  
    order = order + (salad * 2);  
    order = order + (FF * 1.3);  
    order = order + (soda * 0.95);  
    return order;  
}
```

```
System.out.println("");  
System.out.println("Your order comes out to be: $" + format.format(Food.getPrice(Ff, salad, soda, burger)));
```

In the food class, I created a new constructor method `getPrice()` with parameters from the `LunchOrder` class. Using the amount of burgers, salads, fries, and soda the user wants, the program calculates the cost, and then in the main method in the `LunchOrder` class, we print out the final output, telling the user the price of their order. The prices use the decimal format declared earlier.