

Lunch order reflection log

```
// creating food, scanner and decimal object
Scanner input = new Scanner(System.in);
DecimalFormat formatter = new DecimalFormat("#.##");

// showing each parameter.
food burgers = new food("burger", 1.85, 9, 33, 1);
food salads = new food("salads", 2.00, 1, 11, 5);
food fries = new food("fries", 1.30, 11, 36, 4);
food soda = new food("soda", 0.95, 0, 38, 0);

// prompting user for how many burgers, fries, salads, and sodas they would like, this will also provide them the
nutrition information of each
System.out.println("Enter number of hamburgers: ");
int nburgers = input.nextInt();
System.out.println(burgers.toString());

System.out.println("Enter number of salads: ");
int nsalads = input.nextInt();
System.out.println(salads.toString());

System.out.println("Enter number of french fries: ");
int nfries = input.nextInt();
System.out.println(fries.toString());

System.out.print("Enter number of sodas: ");
int nsoda = input.nextInt();
System.out.println(soda.toString());
//outputs total amount of money user owes for the food by accessing it through total method
double totalprice = (nburgers * burgers.getPrice()) + (nsalads * salads.getPrice()) + (nfries * fries.getPrice())
+ (nsoda * soda.getPrice());
System.out.println("Your order comes to: $ " + totalprice);

}
}
```

I first started off by inputting all of my parameters into my food class on the main method so that when the user is prompted for a number of hamburgers for example once the user inputs a number it will show off a statline of nutritious facts about each food. I did a int for each food since a user is inputting a number, each food will be printed out with a .toString method which links it back to the 'string info' which has 5 parameters about the food. At the bottom I did a double totalprice this will calculate how much each order is, within this calculation i did a .getprice method this will return the price in the print statement. I used a decimal format to only show a answer with 2 decimal places.

In my food class I created a private double which is stating that only within this class The system can access the price, same with the string for all my variables. I created a public food constructor method which includes "name, price, fat, carbs, and fiber" . This public will allow us to access these variables in our main method. Public double getprice will now allow for a return in used to exit from a method and optionally pass back a value to the method caller, following that is a public String toString, where I have a info variable. The info will contain my string variables which represent the parameters within the constructor method.

```
private double price;
    private String name;
    private int fat, carbs, fiber;
    // A constructor method that is in use when the price is at $0
    public food(String na,double p, int fats, int carb, int fib) {
        name = na;
        price = p;
        fat = fats;
        carbs = carb;
        fiber = fib;
    }

    public double getPrice()
    {
        return price;
    }

    public String toString() {
        String info;
        info = " Each " + name + " has " + fat + "g of fat, " + carbs+ " g of carbs, and "+
fiber+ " g of fiber ";
        return info;
    }
    // method which returns the price variable which holds the dollar value of the user's
order
    public static double total() {
        return price;
    }
}
```