REFLECTION LOG

```
package mastery;

import java.util.Scanner;
import java.text.DecimalFormat;

public class Lunchorder {
```

Imports scanner and decimal format and creates class

```
public static void main(String[] args) {
    //links Food to Lunchorder
     Food hb = new Food(1.85, 9, 33, 1);
     Food salad = new Food(2.00, 1, 11, 5);
     Food fries = new Food(1.30, 11, 36, 4);
     Food soda = new Food(0.95, 0, 38, 0);

    // Lets the user input values and makes it so th
    Scanner in = new Scanner(System.in);
    DecimalFormat deca = new DecimalFormat("#.##");
```

Connects Food to Lunchorder with an object for each food option
Creates new scanner object to record input and decimal format to restrict decimal places to the hundredths

```
System.out.println("Item        Price");
System.out.println("hamburger   $1.85");
System.out.println("salad       $2.00");
System.out.println("french fries    $1.30");
System.out.println("soda        $0.95");
```

Show the user the menu and the price so they know what they want to order

```
 //prompt for user input
 System.out.print("Enter order of hamburgers: ");
 //used for calculating price later
 int Burger = in.nextInt();
//displays the fat carb and fiber values of each order of hamburgers
 System.out.println("Each hamburger has " + hb.fat() + "g of fat, " + hb.carbs() + "g of carbs, and " + hb.fiber() + "g of fiber");

 //prompt for user input
 System.out.print("Enter order of salads: ");
//used for calculating price later
 int Salad = in.nextInt();
 //displays the fat carb and fiber values of each order of salads
 System.out.println("Each salad has " + salad.fat() + "g of fat, " + salad.carbs() + "g of carbs, and " + salad.fiber() + "g of fiber");

 //prompt for user input
 System.out.print("Enter order of french fries: ");
//used for calculating price later
 int Fries = in.nextInt();
//displays the fat carb and fiber values of each order of fries
 System.out.println("Each order of french fries has " + fries.fat() + "g of fat, " + fries.carbs() + "g of carbs, and " + fries.fiber() + "g of fiber");

 //prompt for user input
 System.out.print("Enter order of sodas: ");
//used for calculating price later
 int Soda = in.nextInt();
//displays the fat carb and fiber values of each order of sodas
 System.out.println("Each soda has " + soda.fat() + "g of fat, " + soda.carbs() + "g of carbs, and " + soda.fiber() + "g of fiber");

 //calculate the total price
 double total = ((hb.price() * Burger)  + (salad.price() * Salad) + (fries.price() * Fries) + (soda.price() * Soda));

 //output message that tells the total price of all orders
 System.out.println("Your total is $" + deca.format(total));
```

1 Prompt user for input

2 Records input in variables

3 Output displays the fat, carb, and fiber values which change depending on the object using the Food, fat, carbs, and fiber methods from Food.java

Repeat the first 3 steps for each food option

Add all the prices of each order together by multiplying the input by the matching food price method that changes with each object in a variable which is double total

Output message telling the user their total price based off their order

```java
package mastery;

public class Food {


        private double price;
        private int fat;
        private int carb;
        private int fiber;

        //Constructor method
        public Food(double prices, int fats, int carbs, int fibers) {
            price = prices;
            fat = fats;
            carb = carbs;
            fiber = fibers;
        }

        // Getter methods for food properties
        public double price() {
            return price;
        }
        public int fat() {
            return fat;
        }
        public int carbs() {
            return carb;
        }
        public int fiber() {
            return fiber;
        }
    }
```

Establish variables price, fat ,carb , and fiber

public Food sets price, fat, carb, and fiber to the parameters of public Food to change the values using the objects in Lunchorder and is constructor method

Public double price returns the price/money needed

Public int fat returns the number of fats in grams

Public int carbs returns the number of carbs in grams

Public int fiber returns the number of fiber in grams