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Assignment Name: Lunch Order Mastery
How has your program changed from planning to coding to now? Please explain?
Created a public class with a private double variables called prices, fats, carbs, fibers and total.
                                                                                                                                                In the client code in the main method, delcare the variables as int as we are dealing with whole numbers.
                                                                                                                                                public static void main(String[] args) {
public class | unchOrder {
     private double prices, fats, carbs, fibers, total;
                                                                                                                                                     // TODO Auto-generated method stub
                                                                                                                                                     //Declaration area
                                                                                                                                                     int burgerAmt, saladAmt, fryAmt, sodaAmt;
Prepared decimal format to shorten any long decimals to 2 decimal places.
//Shortens number to 2 decimal places
DecimalFormat df = new DecimalFormat("#0.00");
                                                                                                                                                Prenared for user to input an answer
                                                                                                                                                //Prepare for user input
                                                                                                                                                Scanner userInput = new Scanner(System.in);
Created constructor method with default values for the class variables.
//Constructor method with default values
                                                                                                                                                Created a new object for each menu item with their respective cost, fats, carbs and fiber, as well as a new object for the total.
public LunchOrder() {
     prices = 0;
                                                                                                                                                //Create new objects
     fats = 0;
                                                                                                                                                LunchOrder totalAmt = new LunchOrder(0);
     carbs = 0;
                                                                                                                                                LunchOrder burgerInfo = new LunchOrder(1.85, 9, 33, 1);
     fibers = 0;
                                                                                                                                                LunchOrder saladInfo = new LunchOrder(2, 1, 11, 5);
     total = 0;
                                                                                                                                                LunchOrder friesInfo = new LunchOrder(1.3, 11, 36, 4);
                                                                                                                                                LunchOrder sodaInfo = new LunchOrder(0.95, 0, 38, 0);
Created method that overloads constructor method with a 4 double variables as the parameters. Overloading total gets a
                                                                                                                                                Prompted the user to input the amount of each item ordered, initializing it. Then displayed the nutritional information using that item's object
senarate method with a double as the parameter in order to overload it more efficiently
                                                                                                                                                and the method that returns the nutritional information. For each item, it's cost is calculated and added to the total using the total Amt object
                                                                                                                                                 with the user input for the amount of each item and the items' price as the parameters.
//Overloading constructor method
public LunchOrder(double price2, double fat2, double carb2, double fiber2) {
                                                                                                                                                 //Prompt user to input an integer for each item and initialize it, display info about each item
     prices = price2;
                                                                                                                                                System.out.print("Enter number of hamburgers: ");
     fats = fat2:
                                                                                                                                                 burgerAmt = userInput.nextInt();
     carbs = carb2;
                                                                                                                                                System.out.println(burgerInfo.burgers());
     fibers = fiber2;
                                                                                                                                                totalAmt.burgerCost(burgerAmt, burgerInfo.getPrice());
public LunchOrder(double totalAmt) {
     total = totalAmt;
                                                                                                                                                System.out.print("Enter number of salads: ");
                                                                                                                                                 saladAmt = userInput.nextInt();
                                                                                                                                                System.out.println(saladInfo.salads());
                                                                                                                                                totalAmt.saladCost(saladAmt, saladInfo.getPrice());
Created an access method for each class variable, will return the variable
//Access method
                                                                                                                                                System.out.print("Enter number of fries: ");
public double getPrice() {
                                                                                                                                                 fryAmt = userInput.nextInt();
     return prices;
                                                                                                                                                System.out.println(friesInfo.fries());
                                                                                                                                                totalAmt fryCost(fryAmt, friesInfo getPrice());
public double getFat() {
    return fats;
                                                                                                                                                System.out.print("Enter number of sodas: ");
                                                                                                                                                 sodaAmt = userInput.nextInt();
public double getCarb() {
                                                                                                                                                System.out.println(sodaInfo.sodas());
    return carbs;
                                                                                                                                                totalAmt.sodaCost(sodaAmt, sodaInfo.getPrice());
public double getFiber() {
                                                                                                                                                Display the total cost of the items ordered using the total Amt object and the total method.
     return fibers:
                                                                                                                                                 //Display total
public double getTotal() {
                                                                                                                                                 System.out.println(totalAmt.total());
    return total;
Created a modifier method for each class variable with a double as the parameter that can you change/alter the
variable. Doesn't return a value, only initializes the variable.
//Modifier method
public void setPrice(double price2) {
    prices = price2;
public void setFat(double fat2) {
    fats = fat2;
public void setCarb(double carb2) {
    carbs = carb2;
public void setFiber(double fiber2) {
    fibers = fiber2:
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Credit Name: CSE2140 2nd Language Programming

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public void setTotal(double totalAmt) {
    total = totalAmt;
Created a string method for each menu item that returns the nutrition information.
//Return display info for menu items
public String burgers() {
    return ("Each hamburger has " + fats + "g of fat, " + carbs + "g of carbs, and " + fibers + "g of fiber.");
public String salads() {
    return ("Each salad has " + fats + "g of fat, " + carbs + "g of carbs, and " + fibers + "g of fiber.");
public String fries() {
    return ("French fries have " + fats + "g of fat, " + carbs + "g of carbs, and " + fibers + "g of fiber.");
public String sodas() {
    return ("Each soda has " + fats + "g of fat, " + carbs + "g of carbs, and " + fibers + "g of fiber.");
Calculate the cost of each menu item using the number of items(int) ordered and its price(double) as the parameters.
Then add the cost of the item, the amount of items multiplied by the price, to the total.
//Calculate burger price
public void burgerCost(int burgerAmt, double price)
    total += (burgerAmt * price);
//Calculate salad price
public void saladCost(int saladAmt, double price) {
    total += (saladAmt * price);
//Calculate salad price
public void fryCost(int fryAmt, double price) {
    total += (fryAmt * price);
//Calculate salad price
public void sodaCost(int sodaAmt, double price) {
    total += (sodaAmt * price);
Created a string method the returns the total cost of all the items.
//Display total price
public String total() {
    return "Your order comes to: $" + df.format(total);
```