Credit 3120 Assignment E1 MySavings

How has your program changed from planning to coding to now? Please explain?

Starting off the main code code part

```
package mastery;

public class E1MySavings {
    private double totalMoney;
    private double pennies;
    private double nickels;
    private double dimes;
    private double quarters;

public E1MySavings(){
    totalMoney = 0;
}

public E1MySavings(double moola, double p, double n, double d, double q)

totalMoney = moola;
double pennies = p;
double pennies = p;
double nickels = n;
double dimes;
double guarters = q;

double guarters = q;

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public E1MySavings(double moola, double p, double n, double d, double q)

totalMoney = moola;
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public E1MySavings(double moola, double p, double n, double d, double q, double q,
```

Starting with first display screen

```
package mastery;

public class ELMySavings {
    private double fotalMoney; //making these variables private and MORECEREARDIR
    private double pennies;
    private double dimes;
    private double dimes;
    private double dimes;
    private double dimes;
    private double quarters;

public ELMySavings(){ //creating main starting constructor
    totalMoney = 0;
    public dimes = 0;
    inickels = 0;
    dimes = 0;
    quarters = 0;

    public ELMySavings(double moola, double p, double n, double d, double q) //creating overloaded constructor
    {
        totalMoney = moola;
        double pennies, = p;
        double pennies, = p;
        double pennies, = p;
        double double dimes = d;
        double guarters = q;

    }

public displayMainSelectionScreen() {
        System.out.println('1. show total in bank.");
        System.out.println('3. Add mickels.");
        System.out.println('3. Add dickels.");
        System.out.println('4. Add dimes.");
        System.out.println('5. Add quarters.");
        System.out.println('6. Take money out of bank.");
}
```

Had to move it to the test code

```
import java.util.Scanner;

public class EUMySavingsTest {
   public static void main(String[] angs){
        //creating scanner for user input
        Scanner Scanner(System.in);

        //set spots one can user methods and such from the other file
        EUMySavings spot = new EUMySavings();

        //defining variables
        int MSECSelection = 0;

        while (true) { //loop jassass user inputs something other then whats listed
        String selection = scanner.nextline(); //sccepts input
        System.out.println("l. show total in bank.");
        System.out.println("l. show out of bank.");
        System.out.println("l. ske some) out of bank.");
        System.out.println("ferter 0 to quit.");

        if (selection == "" | selection == "3" | selection == "5" | selection == "6" | selec
```

Changing a whole bunch of stuff,

```
| public Class Eurysavings {
| private double totalNoney; //making these variables private and WOBSCCCSSABLES |
| private int intickels; |
| private int dimes; |
| dimes = 0; |
| double tiPySavings(double moola, double p, double n, double d, double q) //creating overloaded constructor |
| totalMoney = moola; |
| double pennies; = p; |
| double pennies; = p; |
| double guarkers = q; |
| double guarkers = q; |
| double guarkers = q; |
| double double displayTotalMoney() {
| double totalMoney = (pennies * 0.01 + nickels * 0.05 + dimes * 0.10 + quarters * 0.25); |
| return(totalMoney); |
| private int int diderenies (int useraddedpennies) {
| pennies + useraddedpennies; |
| return(pennies); |
| private int diderenies (int useraddedpennies) {
| pennies + useraddedpennies; |
| return(pennies); |
| private int didmens |
| private int dimens |
```

Creating methods for each of the options user can select

created methods for all options

```
5ystem.out.println('1. And dinters.');
5ystem.out.println('1. And dinters.');
6ystem.out.println('1. And dinters.');
7ystem.out.println('1. Take more yout of bank.');
8ystem.out.println('Enter 0 to quit.');
8ystem.out.println('Enter 0 to qui
```

new way to get user input

It now accepts user input properly

Now filters if user puts wrong thing in, now will copy the chunk for selection 2 till 5, same code just different amounts of money

```
}else if (selection == 2) {
    System.out.println("How many pennies would you like to deposit?");
    strselection = scanner.nextLine();//accepts user input
    spot.addPennies(strselection);//runs the add pennies method
}else if (selection == 3) {
```

Was able to move all the code to the method

```
//for when user adds pennies
public int addPennies (String straddedpennies){ //accepts how many pennies user adds

try {//in case a error happens the code doesnt just end
    int addedpennies = Integer.parseInt(straddedpennies); //changes the input form user to int from string
    System.out.println("You have deposited " + addedpennies + " pennies!");
    System.out.println("");//creates white space
    pennies + = addedpennies; //adds the amount of pennies the user added to the current amount of pennies
    return(pennies); //returns new amount of pennies

} catch (Exception e) { //to not break code
    System.out.println("Something went wrong. Please try again.");//tells user to try again
    System.out.println("");//creates white space
    return(pennies);
}
```

Final code just need to test,

```
}else if (selection == 2) {
                           System.out.println("How many pennies would you like to deposit?");
59
                           strselection = scanner.nextLine();//accepts user input
                           spot.addPennies(strselection);//runs the add pennies method
                      }else if (selection == 3) {
                          System.out.println("How many nickels would you like to deposit?");
strselection = scanner.nextLine();//accepts user input
                           spot.addNickels(strselection);//runs the add nickels method
                      }else if (selection == 4) {
                           System.out.println("How many dimes would you like to deposit?");
                          strselection = scanner.nextLine();//accepts user input
spot.addDimes(strselection);//runs the add dimes method
                      }else if (selection == 5) {
                           System.out.println("How many quarters would you like to deposit?");
                           strselection = scanner.nextLine();//accepts user input
                           spot.addQuarters(strselection);//runs the add quarters method
                      }else if (selection == 6) {
                           spot.withdrawMoney(strselection);//removes money from the account
                      }else if (selection == 0) {
                           System.out.println("Bye bye!");
86
                          System.out.println("Something went wrong. Please try again.");
                          System.out.println("");//whitespace continue;//restarts loop
                 } catch (Exception e) { //final loop block for if any errors pop up
                      System.out.println("Something went wrong. Please try again.");
                      System.out.println("");//whitespace
continue;//restarts loop
```

Final looping block things in case any errors happen

Touch ups and grammar

```
//when user takes money out of the bank

public double withdrawskoney (String strwithdrawsmount); //changes the input form user to int from string

double withdrawswoney (spennies * 0.01 + nickels * 0.05 + dimes * 0.10 + quarters * 0.25); //calculates amount of money in account

totalMoney = Math.round(totalMoney * 100.0) / 100.0; //to round to the nearest hundredth

if (withdrawsmount < totalMoney = 100.0) / 100.0; //to round to the nearest hundredth

if (withdrawsmount < totalMoney * vithdrawsmount); //removes user amount from money from bank

totalMoney = Math.round(totalMoney * 100.0) / 100.0; //to round to the nearest hundredth

system.out.println("You have $" * totalMoney * 100.0) / 100.0; //to round to the nearest hundredth

system.out.println("Ferror. You can not withdraw that amount of money from your bank.");//says error

return(totalMoney); //returns total money

} casted (Exception e) { //final error catcher

system.out.println("something went wrong. Please try again.");

totalMoney = Math.round(totalMoney * 100.0) / 100.0; //to round to the nearest hundredth

return(totalMoney);
}
```

In this chunk