

Reflection Log

```
package mastery;  
  
import java.util.Scanner;  
  
public class Addcoins {
```

Imports scanner and creates class

```
.  
public static void main(String[] args) {  
    // Lets the user input values and makes it so that decimals only go to the hundredths  
    Scanner in = new Scanner(System.in);  
    DecimalFormat deca = new DecimalFormat("#.##");
```

Creates new scanner object to record input and decimal format to restrict decimal places

```
System.out.print("Enter number of pennies: ");  
int pen = in.nextInt();  
System.out.print("Enter number of nickels: ");  
int nic = in.nextInt();  
System.out.print("Enter number of dimes: ");  
int dime = in.nextInt();  
System.out.print("Enter number of quarters: ");  
int quarter = in.nextInt();
```

Prompt user to input the amount of pennies, nickels, dimes, and quarters and holds those numbers in variables

```
    //applies the getDollarAmount method to the amount of pennies, nickels, dimes, and quarters the user entered  
    Double total = getDollarAmount(pen, nic, dime, quarter);  
  
    //outputs the total dollar amount with a message  
    System.out.println("Total dollar amount: " + deca.format(total));
```

Uses getDollarAmount on the user inputted numbers then outputs the total using decimal format with a message

```
//method to convert the number of coins into dollars  
public static Double getDollarAmount(int pen, int nic, int dime, int quarter) {  
  
    //multiplies the amount of pennies, nickels, dimes, and quarters to their actual value then adds them together  
    Double total = (pen * 0.01) + (nic * 0.05) + (dime * 0.1) + (quarter * 0.25);  
  
    //returns total  
    return (total);
```

getDollarAmount method that changes the pennies, nickels, dimes, and quarters to their money value and adds them together then returns the total amount as a double