ReflectionLog: AddCoins

Youdis

```java
package Mastery;
import java.util.Scanner;
public class AddCoins {

    //method to add up dollar amount of coins received in parameters
    public static String getDollarAmount(int quarters ,int dimes ,int nickels ,int pennies) {
        DecimalFormat formatter = new DecimalFormat("#.##");
        // declared variable and initialize it with sum of all the coins at their dollar amount
        String total = String.valueOf((quarters * 0.25) + (dimes * 0.10) + (nickels * 0.05) + (pennies * 0.01));

        //return the value of the total amount of money the coins are worth

        return formatter.format(Double.parseDouble(total));

    }
```

Making the method, taking the parameters of quarter, dimes, nickels, and pennies. Then adding all the parameters multiplied each by their real world dollar value of 0.25, 0.1, 0.05, and 0.01 respectively. Returning the 2 decimal formatted version of the sum just calculated.

```java
15
16    }
17⊖    public static void main(String[] args) {
18         // TODO Auto-generated method stub
19         //creating new scanner object
20         Scanner Input = new Scanner(System.in);
21         //prompting user to enter how many of each coins they have
22         System.out.println("Enter your total coins:");
23         // prompting user with each coin and then storing how many they have in variables declared for each coin
24         System.out.print("Quarters: ");
25         int quarters = Input.nextInt();
26         System.out.print("Dimes: ");
27         int dimes = Input.nextInt();
28         System.out.print("Nickels: ");
29         int nickels = Input.nextInt();
30         System.out.print("Pennies: ");
31         int pennies = Input.nextInt();
32         // outputting the user's total by calling method previously made and outputting its return value
33         System.out.print("Total: $" + getDollarAmount(quarters, dimes, nickels, pennies));
34    }
35
36 }
```

Create a new scanner object to record user input, then will ask user to input how many of each coin they have then will enter these recorded values into the parameters of the previously made method. Then will output the return value of the method as the total amount of money the user has.