Reflection Log AddCoins

```
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
```

The program initializes a Scanner object to read user input from the console.

```
// Prompt the user for the number of pennies, nickels, dimes, and quarters
System.out.print("Enter the amount of pennies: ");
int pennies = scanner.nextInt();

System.out.print("Enter the amount of nickels: ");
int nickels = scanner.nextInt();

System.out.print("Enter the amount of dimes: ");
int dimes = scanner.nextInt();

System.out.print("Enter the amount of quarters: ");
int quarters = scanner.nextInt();
```

This code prompts the user to enter the amounts of pennies, nickels, dimes, and quarters, and stores the input values in respective integer variables (pennies, nickels, dimes, and quarters).

```
// Call the getDollarAmount method and display the total dollar amount
String totalAmount = getDollarAmount(pennies, nickels, dimes, quarters);

System.out.println("total dollar amount: " + totalAmount);
```

This code calls the getDollarAmount method, passing the values of pennies, nickels, dimes, and quarters as arguments, and stores the returned value (likely a string representation of the total dollar amount) in the totalAmount variable, which is then printed to the console.

```java
 // Method to calculate the total dollar amount of coins
public static String getDollarAmount(int pennies, int nickels, int dimes, int quarters) {

    // Calculate the dollar value of each coin type
    double total = pennies * 0.01 + nickels * 0.05 + dimes * 0.10 + quarters * 0.25;
```

This code defines a method, getDollarAmount, that calculates the total dollar value of a given number of pennies, nickels, dimes, and quarters by multiplying the count of each coin type by its corresponding value and summing the results.

```java
// Format the result as a String with a currency sign and 2 decimal places
return String.format("$%.2f", total);
```

This code formats the calculated total dollar amount as a string, appending a dollar sign and ensuring the result is displayed with two decimal places.