

**Credit Name: CSE 2110 Procedural Programming 1**

**Assignment: AddCoins**

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

```
//Method to find total amount in dollars.  
//It takes in four parameters, 1 for each coin type.  
public static String getDollarAmount(int num1,int num2, int num3, int num4)  
{  
    //ensure the total money is always given to 2 dec places.  
    DecimalFormat df = new DecimalFormat("0.00");  
    //Use the respective values in dollars for each coin  
    double q = num1 * 0.25;  
  
    double d = num2 * 0.1;  
  
    double n = num3*0.05;  
  
    double p = num4 * 0.01;  
  
    double total = q+d+n+p;  
  
    System.out.print("Total: $" +df.format(total));  
    return null;  
}
```

**In the method,there are 4 parameters: 1 for each coin type for which the user will enter how many of those coins they have. I set up a decimal format to always represent money correctly to 2 decimal places. Different coin types are set up to be the amount the user has multiplied by their worth in dollars. Total is calculated and then printed.**

```

40● public static void main(String[] args)
41 {
42     Scanner input = new Scanner(System.in);
43
44     System.out.println("Enter your total coins: ");
45     System.out.print("Quarters: ");
46     int q = input.nextInt();
47     System.out.print("Dimes: ");
48     int d = input.nextInt();
49     System.out.print("Nickels: ");
50     int n = input.nextInt();
51     System.out.print("Pennies: ");
52     int p = input.nextInt();
53
54     input.close();
55
56     //find value in dollars of the 4 variables by calling method.
57     getDollarAmount(q,d,n,p);
58 }
59
60 }

```

*In my main method i use the Scanner to get the amount of quarters, dimes, nickels and pennies, indicated by the initial letter of the respective coin.*

*After the program gets the relevant information, we call the getDollarAmount method using the users inputted values as the parameters to the method. When the method is called, the total amount the user holds in dollars is shown.*