Credit Name: CSE 2110 Procedural Programming 1

Assignment Name: AddCoins

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

I began creating a method that calculates the sum value of the coins given by the user. This method returns a string (dollar amount), and uses int values of # of coins

```java
//This method calculates the total value of given coins
//@param (int) p, n, d, q: amount of each corresponding coin type
//@return: "$" + total value
public static String getDollarAmount(int p, int n, int d, int q) {
```

Within the method, multiply each amount of coins by their values, and add each together to obtain sum value. Store in a double variable called total.

```java
//Multiply # of coins by corresponding values, and calculate sum.
//store sum in double variable total
double total = ((p * 0.01)+(n * 0.05)+(d * 0.1)+(q * 0.25));
```

Convert total variable to a string, and add a dollar sign in front to return a dollar value.

```java
//return dollar amount
return ("$" + Double.toString(total));
```

In the main method, begin by initalizing variables.

```java
//Initialize variables
int p, n, d, q;
```

Imported scanner to prepare for user input

```java
//Preparing for user input + format decimal variables
Scanner input = new Scanner(System.in);
```

Prompted user to enter total amount of each type of coin, saving user input in respective variables.

```java
//Prompt user for # of coins for each corresponding type, and record user input.
System.out.print("Quarters: ");
q = input.nextInt();

System.out.print("Dimes: ");
d = input.nextInt();

System.out.print("Nickels: ");
n = input.nextInt();

System.out.print("Pennies: ");
p = input.nextInt();
```

Using method getDollarAmount with the param of the values given by the user, display its return value.

```java
//Display dollar amount; return value of method getDollarAmount(p,n,d,q)
System.out.println("");
System.out.println("Your total dollar amount is: " + getDollarAmount(p,n,d,q));
```