

Credit Name: CSE2140 2nd Language Programming

Assignment Name: Add Coins Mastery

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

Create a method that will return a string value with pennies, nickels, dimes and quarters as the parameters. Calculate the value of the pennies, nickels, dimes and quarters and then calculate the sum of the coins. Return a string including "\$".

```
public static String getDollarAmount(int pennies, int nickels, int dimes, int quarters) {  
    //Calculate price of each type of coin and total sum  
    double penniesAmt = pennies * 0.01;  
    double nickelsAmt = nickels * 0.05;  
    double dimesAmt = dimes * 0.1;  
    double quartersAmt = quarters * 0.25;  
    double sum = penniesAmt + nickelsAmt + dimesAmt + quartersAmt;  
    return("$" + sum);  
}
```

In the main method, I declared the variable type as int as we are dealing with whole numbers(of coins).

```
public static void main(String[] args) {  
    // TODO Auto-generated method stub  
    //Declaration area  
    int pennies, nickels, dimes, quarters;
```

Prepared for user to input an answer.

```
//Preparing for user input  
Scanner userInput = new Scanner(System.in);
```

Prompted user to enter an integer for each coin type and initialized it under the variables.

```
//Prompt user to input an integer and initialize variables  
System.out.print("Please enter the total amount of coins."  
    + "\nQuarters: ");  
quarters = userInput.nextInt();  
System.out.print("Dimes: ");  
dimes = userInput.nextInt();  
System.out.print("Nickels: ");  
nickels = userInput.nextInt();  
System.out.print("Pennies: ");
```

```
System.out.print( pennies.  ),
pennies = userInput.nextInt();
```

Display the total value returned from the method above.

```
//Display total sum to user
System.out.print("Total: " + getDollarAmount(pennies, nickels, dimes, quarters));
```