

Credit Name: CSE 2nd Language Programming Credit

Assignment Name: #5 Change Assignment

How has your program changed from planning to coding to now? Please explain? I've learnt before to print and to do "double amount," and I was planning to use those two variables to program

```
1 import java.util.Scanner;
2
3 public class ChangeCalculator {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7         System.out.print("Enter an amount less than $1.00: ");
8         double amount = scanner.nextDouble();
```

I used "System.out.print" to print out the question for the user to answer and I typed a variable to double the amount on the following coins below if the the amount needs more than one dime for instance, \$0.20.

```
if (amount >= 1.00) {
    System.out.println("Amount must be less than $1.00");
    return;
}
```

I used an "if" vairable if the user puts an amount more than \$1.00, it'll print out on the display that you must enter an amount less than \$1.00.

```
int cents = (int) (amount * 100); // Convert dollars to c

int quarters = cents / 25;
cents %= 25;

int dimes = cents / 10;
cents %= 10;

int nickels = cents / 5;
cents %= 5;

int pennies = cents;
```

Using the variable "int" to program the values of the pennies (quarters, dimes, nickels, pennies). I did "int cents" to make the amount the user inputted to covered the dollars to cents as well as putting the value for the coins so the program knows what value of the coins should be chosen in the specific amount.

```
System.out.println("Minimum number of coins:");
System.out.println("Quarters: " + quarters);
System.out.println("Dimes: " + dimes);
System.out.println("Nickels: " + nickels);
System.out.println("Pennies: " + pennies);

scanner.close();
}
```

After the program is done selecting the coins for the specific amount that the user has inputed, it'll display the amount and what coins you need to the user.