

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

Planning Stage

- Identify Inputs and Outputs:
 - INPUT: Coin values
 - Output: The coins value turned into a Dollar amount
- Design the Structure: You might have outlined the program's flow, such as:
 - Ask user for their input
 - Take in the user input then turn the input into a total
 - Then display result

(The planning had changed Through)

Design the structure Change:

- Changed the plan into combining all the coins amount into a dollar amount
- When taking in the total amount of the coins (need to add each coin's values like Pennies 0.01 in dollar amount.

Please explain?

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

    System.out.print("Enter the number of pennies: ");
    int PENNIES = Userinput.nextInt();

    System.out.print("Enter the number of nickels: ");
    int NICKELS = Userinput.nextInt();

    System.out.print("Enter the number of dimes: ");
    int DIMES = Userinput.nextInt();

    System.out.print("Enter the number of quarters: ");
    int QUARTERS = Userinput.nextInt();

    System.out.println("Total amount: " + DOLLARamount(PENNIES, NICKELS, DIMES, QUARTERS));
}
```

My code uses the Scanner prompt called (user input) Allow the user to have the ability to enter a coin's (pennies, nickels, dimes, and quarters) values. And these variables store the user integer values. To let the program process the information easier I added all the variable values into one variable called (DollarAmount).

```
}  
public static String DOLLARamount (int PENNIES, int NICKELS, int DIMES, int QUARTERS)  
{  
    double SUMTOTAL = PENNIES * 0.01 + NICKELS * 0.05 + DIMES * 0.10 + QUARTERS * 0.25;  
  
    return String.format("%.2f", SUMTOTAL);  
}  
}
```

The Variable called (Dollar amount) contains the total amount of the coins values then by multiplying the number of the value of coins in dollars amount then gives the total amount into through variables called (SUMTOTAL).