Lab Report 01

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**Problem**

Upon entering a value, the program determines how many quarters, dimes, nickels, and pennies to that composes said amount.

Requirements:

* You must use the mod (%) operator as an integral part of your solution.

**Solution**

Declare quarters, dime, and nickels as constant. Then set up Scanner and prompt for value of money. Declare q, d, n, p to store values of quarters, dime, nickels, and pennies by val(input) Divide by each currency. then mod(%) each currency to get remainder for next. Finally, output the answers.

Same operate to dime and nickels for d, n

Int quarters=25, dime=10, and nickels=5

p = val

Set up Scanner and prompt user for a value(val)

int q = val/ quarters

val = val % quarters

Print them all

**Implementation Problems Encountered**

In the beginning, I output directly (val +” cents in coins:”), (val/25 + “quarters”), (val % 25 / 10 +” dimes”), (val % 25 % 10 / 5 +” nickels”), and (val % 5 +” pennies”).

It was right I think because I test many times and always get right answer. No compile errors.

**Lab Report Questions**

1.Devise a solution to calculate the number of hours and remaining minutes given only an amount of minutes. You may use a high-level description or pseudocode.

Get the totalmin as int input first. Then output (totalmin/60 + “ hours “+ totalmin % 60 + “ minutes”).

2.What types does the mod (%) work on?

All numeric types. ex. Int, byte, short, long, double.