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CIS022

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Ch 1 Exercises 16/17/22

Ch1-16: Algorithm to convert change in quarters, nickels, dimes, and pennies into pennies.

* Ask for number of quarters, dimes, nickels, and pennies and store the values.
* Use the following functions to find number of pennies that equal the value of stored currency:
  + PenniesFromQuarters=quarters\*25
  + PenniesFromDimes=dimes\*10
  + PenniesFromNickels=nickels\*5
  + PenniesFromPennies=pennies
* Add all values together to get exact change in pennies using: totalPennies=PenniesFromQuarters+PenniesFromDimes+ PenniesFromNickels+ PenniesFromPennies

Ch1-17: Algorithm to find price of pizza per square inch with given radius(in) and price.

* Create a variable; PriceSquareInch for the cost of the pizza by area.
* Ask user for radius length
* Ask user for price of the pizza.
* Find the area of the pizza; area=(pi)\*(radius\*radius)
* PriceSquareInch=(price/area)
* Print PriceSquareInch

Ch1-22:ATM max=$500: Ask user for amount to withdraw, check it against account balance and withdrawal limit, if withdrawal amount over 300, attach a 4% service fee on amount over 300. If withdrawal amount over 500, do not allow. If balance is <0, do not allow withdrawal. Update account balance.

* Ask user for amount of money to withdraw; assign it to WithdrawalAmount
* If WithdrawalAmount>300 && WithdrawalAmount<500; WithdrawalAmount= (WithdrawalAmount-300)\*.04
* If accountBalance< WithdrawalAmount; WithdrawalAmount= WithdrawalAmount+25
  + If accountBalance<=0; print “Insufficient Funds”
* If WithdrawalAmount>500; print “Cannot withdraw amount; limit is $500”
* accountBalance=accountBalance-WithdrawalAmount;