Assignment Chapter 3 Randall Fishwick

CO SCI 124

Python Programming

*# Write a program that asks the user to enter the number of packages purchased.  
# The program should then display the amount of the discount (if any)  
# and the total amount of the purchase after the discount.  
  
# Named constants*UNIT\_COST = 99.00  
  
*# Variables*qty = 0 *# Package qty (integer)*discount\_percent = 0.0 *# Default discount percent to 0%*price = 0.0 *# qty \* UNIT\_COST*net\_price = 0.0 *# price - discount amount  
  
# Get the quantity from the user and convert to int*qty = int(input(**'Enter package quantity: '**))  
  
*# Calculate discount***if** qty < 10:  
 print(**'Discount: 0%'**)  
 discount\_percent = 0.0  
**elif** qty >= 10 **and** qty < 20:  
 print(**'Discount: 10%'**)  
 discount\_percent = 0.1  
**elif** qty >= 20 **and** qty < 50:  
 print(**'Discount: 20%'**)  
 discount\_percent = 0.2  
**elif** qty >= 50 **and** qty < 100:  
 print(**'Discount: 30%'**)  
 discount\_percent = 0.3  
**else**:  
 print(**'Discount: 40%'**)  
 discount\_percent = 0.4  
  
*# Calculate the price*price = qty \* UNIT\_COST  
  
*# Calculate the net price after discount*net\_price = price - (price \* discount\_percent)  
  
*# Print the net price*print(**'Total purchase price: $'**, format(net\_price, **',.2f'**))

Input qty

Constant Real  
UNIT\_COST = 99.00

A

Display “**'Enter package quantity**”

Declare Real discount\_percent = 0.0,

price = 0.0,

net\_price = 0.0

Declare Integer  
qty = 0

Start

Display “Discount: “ Discount \_Percent

net\_price = price - (price \* discount\_percent)

End

Display “Total Purchase Price: ” net\_price

price = qty \* UNIT\_COST

False

False

False

False

True

True

True

True

B

B

B

B

B

B

discount\_percent = 30.0

discount\_percent = 10.0

discount\_percent = 20.0

discount\_percent = 0.0

discount\_percent = 40.0

A

qty >= 50 and qty < 100

qty >= 20 and qty < 50

qty >= 10 and qty < 20

qty < 10