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CIS121 061 - Introduction to Programming

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CIS 121 Introduction to Programming.

Week 2 - Sequence Problems

1. Allow the user to enter the quantity and unit price (price per item). Compute extended price (quantity x price). Display the extended price.

Input	Process	Output
qty	extprice = qty * Price	extprice
unitprice		

Name	Etymology
qty	Quantity
extprice	Extended Price
Price	Price
unitprice	Unit Price

2. Allow the user to enter last name, hours and pay rate. Compute gross pay to be hours x rate. (Note: we are not giving time and a half for over time hours yet!). Display last name and gross pay.

Input	Process	Output
Lname		
hrs	gross = hrs * Lname	Lname
payrate		gross

Name	Etymology
Lname	Last Name
hrs	hours
gross	Gross Pay
payrate	Pay Rate

3. The user is to enter the length and width of a rectangle. Computer the area (length x width) and the circumference (2 x length + 2 x width). Display the area ad circumference.

Input	Process	Output
length	area = length * width	area
width	cir = 2 * length + 2 * width	cir

Name	Etymology
length	Measured Length
width	Measured Width
area	Area Calculation
cir	Circumfrance

4. Enter last name and credits taken. Tuition is \$250 per credit hour. Add a \$100 lab fee. Compute total tuition (credits taken x 250 + lab fee). Display last name and tuition.

Input	Process	Output
Lname	tuition = credits * 250.00 + 100.00	Lname
credits		tuition

Name	Etymology
Lname	Last Name
credits	Credits Earned
tuition	Tuition Owed

5. The price of an item and discount percent is entered into the program. Display the discount amount and discounted price of the item. Note: enter the discount percent in decimal form.

Name	Etymology
Price	Price
Discamt	Discount Amount
Discper	Discount Per Item
Discprice	Discount Price

Input	Process	Output
Price	Discamt = Price * Discper	Discamt
Discper	Discprice = Price - Discamt	Discprice