CIS 121 Sequence Problems

Develop an IPO Chart and C++ code the following problems. Upload the IPO and code files to Blackboard.

Save your files with the convention PS2P1, PS2P2 etc. PS1P1 is Problem set 1, program 1 etc.

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
Quantity, price	Extended price= quantity x price	Extended 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, hours, payrate	Gross pay= hours x rate	Lname, gross pay

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, width	Area= length x width, circumfrence = 2 x(length + width)	Area, circumfrence

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, credits taken	Tuition = (credits x 250) + 100 (lab fee)	Lname, tuition

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.

input	process	output
Price, discount percent(decimal)	Discount amount = price x discount , discounted price = price – discount amount	Discount amount, discount price