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
Quanity	Extended price= quantity*price	Extended price
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
Last name	Grosspay=hours*payrate	
Hours		last name and gross pay
payrate		

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	
width	Circumference= 2*length+2*width	Display area
		Display circumference

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
Last name	Total tuition = (Credits taken*250)+100	Last name
Credits taken		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 of item	Price=discounted percent	Discount amount
Discount percent (decimal form)	Discounted price= price- dicounted amount	Discounted price