

## CIS 106 Session 2 Assignment Problems – Basic Input Output

Develop an IPO for the following problems. Put them into this Word document and save. Upload the document to your GitHub Repository. Finally paste the link to your repository into the assignment upload link in Blackboard for grading.

Save your files with the convention PS2P1, PS2P2 etc. (see syllabus for details on the naming convention).

1. Prompt the user to enter a quantity (which is a floating point number) and price per unit (float). Then computer extended price (quantity x price per unit). Display the extended price.

Input	Process	Output
Quantity	extendedprice=qty*ppu	Extended price
ppu		

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
Lastname		Last name
hours	Grosspay= hours*rate	grosspay
payrate		

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

Input	Process	Output
length	area=length*width	area
width	circumference=2xlength + 2x width	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		
Credits taken	tuition= credits taken x 250 + lab fee	Total 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 = \$100	Total amount = price \$100 - discount \$10	Total amount = \$90
discount= .10		