CIS 106 Session Assignments Set 1 Problems.  
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.

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| **INPUT** | **PROCESSING** | **OUTPUT** |
| Quantity | Extprice=quant.\*priceperunit | Extended price |
| Priceperunit |  |  |
|  |  |  |

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

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| **INPUT** | **PROCESSING** | **OUTPUT** |
| Last name | Grosspay=hours\*pay | Lastname |
| Hours |  | grosspay |
| Pay rate |  |  |
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3. The user is to enter the length and width of a rectangle. Computer area (length x width) and  
the circumference (2 x length + 2 x width). Display the area ad circumference.

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| **INPUT** | **PROCESSING** | **OUTPUT** |
| Length | Area= length\*width | Area |
| width | Circumference= (2\*length) + (2\*width) | Circumference |
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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.

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| **INPUT** | **PROCESSING** | **OUTPUT** |
| Lastname | Totaltuition= (credits taken\*$250) + $100 | Lastname |
| Creditstaken |  | totaltuition |
|  |  |  |

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

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| **INPUT** | **PROCESSING** | **OUTPUT** |
| Price | Disctamnt= price\*discountprct | Disctamnt |
| Discountprct | disctedprice = price- disctamnt | disctedprice |
|  |  |  |