

CIS 106 Session 3 Assignment Problems – Sequence Logic

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

Save your files with the convention PS3P1, PS3P2 etc. PS3P1 is Problem set 3, program 1 etc.

1. Allow the user to enter the stock ticker symbol (ie MSFT for Microsoft, it's a string variable), number of share and cost per share. Compute and display amount invested to be number of share times cost per share.

| Input | Process | Output |
|---------------------|---|---------------------|
| Stock ticker symbol | Total invested= number of shares x cost per share | Stock ticker symbol |
| Number of shares | | Total invested |
| Cost per share | | |

2. The student will enter their last name, midterm and final exam score. Compute the total exam points to be the sum of the midterm and final exam. Display student last name and total exam points.

| Input | Process | Output |
|--------------------|--|--------------|
| Last name | Total points= midterm score + final exam score | Last name |
| Final exam score | | Total points |
| Midterm exam score | | |

3. You and two friends completed a job and received an amount that is entered into the problem. You are to split the amount received evenly between the three of you. Compute and display what each of you will receive.

| Input | Process | Output |
|-----------------------|---|------------------|
| Total amount received | Share per person= total amount received/3 | Share per person |

| | | |
|--|--|--|
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4. Enter the make, model, msrp amount and discount percent of an auto you are interested in. Compute the amount off msrp you will receive as well as the discounted price. The amount off is computed to be the msrp times the discount percent (you can enter as a decimal so no need to divide by 100). The discounted price is the msrp minus the amount off. Display the make, model, msrp, discount percent, amount off and discounted price.

| Input | Process | Output |
|------------------|-------------------------------------|-----------------------------|
| Make and model | Amount off= msrp x discount percent | make / model |
| Msrp amount | Discounted price= msrp - amount off | msrp/ discount percent |
| Discount percent | | Amount off/ discounts price |

5. Allow the user to enter a radius of a circle. Compute and display the area to be pie times radius squared (use 3.174 for pie and multiple radius time radius for radius squared). Also, compute and display the perimeter (2 time pie * radius).

| Input | Process | Output |
|--------|-----------------------------|-----------|
| radius | Area= 3.174x radius | Area |
| | Perimeter= 2x 3.174x radius | Perimeter |
| | | |

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