CIS 106 Session Assignments Set 3 Problems.

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 | Input ticker symbol | Stock ticker symbol |
| Number of share | Input number of share | Number of share |
| Cost per share | Input cost per share | Cost per share |
|  | Amount invested = number of share times x cost per share | Amount invested |
|  | Print Stock ticker symbol  Print Number of share  Print Cost per share  Print Amount invested |  |

1. 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 | Input last name | Last name |
| Midterm exam score | Input midterm exam score | Total exam points |
| Final exam score | Input final exam score |  |
|  | Total exam points= Midterm exam score + Final exam score |  |
|  | Print total exam points |  |

1. 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 | Input total amount | Each person will receive |
|  | Each person will receive= total amount / 3 |  |
|  | Print Each person will receive |  |
|  |  |  |

1. 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, mrsp, discount percent, amount off and discounted price.

|  |  |  |
| --- | --- | --- |
| Input | Process | Output |
| Make | Input make | Make |
| Model | Input model | Model |
| msrp amount | Input msrp amount | msrp amount |
| Discount percent (in decimal) | Input discount percent (in decimal) | Discount percent |
|  | Amount off= msrp amount x discount percent (in decimal) | Amount off |
|  | Discounted price= msrp amount – amount off | Discounted price |
|  | Print make  Print model  Print msrp amount  Print discount percent  Print amount off  Print discounted price |  |
|  |  |  |

1. 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 | Input radius | Area |
|  | Area= 3.174 x radius x radius | Perimeter |
|  | Perimeter= 2 x 3.174 x radius |  |
|  | Print area  Print Perimeter |  |