

CS127-5L: Computer Programming 2 Laboratory

Machine Problem #3: Struct (Records)

Name:	Carreon, Ma. Addine Anne T.	Score:
Section:	A35	Date: 03/16/2023

Instructions:

1. Save your file as Surname_Firstname_MP3. Ex. Isip_MP3.cpp
2. You will submit the following and send it to BB .
 - a. PDF file of Machine Problem 1 provided with the screenshot of your answers (Sample Run)
 - b. C++ script with .cpp extension.
3. Your program must have comments for each section.

Header Comments:

Write a description of the program.

Written by: Cheryl Mari M. Isip

Date: March 17,2023

Time: 7:30am

Program: BSCPE

Course: CS127-5L

Section: B20

School: Mapua University

EXERCISE

Write a C++ program that uses a structure for storing a stock name, its estimated earnings per share, and its estimated price-to-earnings ratio. Have the program prompt the user to enter these items for five different stocks, each time using the same structure to store the entered data. When the data has been entered for a particular stock, have the program compute and display the anticipated stock price based on the entered earnings and the price-per-earnings values. For example, if a user enters the data XYZ 1.56, 12, the anticipated price for a share of XYZ stock is $(1.56) \times (12) = \$18.72$.

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Take a screenshot and paste your output:

The image shows two identical instances of the Microsoft Visual Studio IDE running on a Windows desktop. Both instances are executing the same C++ program, Carreon_MP3, which demonstrates the use of structures (records) to store stock information.

Code Snippet (Top Window):

```
1 //The code is to use structure for storing stock name, estimated earnings per share, and its estimated price-to-earning ratio
2 //Written by: Ma. Addine Anne T. Carreon
3 //Date: March 16, 2023
4 //Time: 2:28 PM
5 //Program: BSDS
6 //Course: CS127-5L
7 //Section: A35
8 //School: Mapua University
9
10 #include <iostream>
11 #include <iomanip>
12
13 using namespace std;
14
15 struct Stock
16 {
17     string StockName;
18     double EstimatedEarningsPShare;
19     double EstimatedPriceTEarning;
20 };
21
22 int main()
23 {
24     struct Stock TheStocks;
25     for (int x = 0; x < 5; x++)
26     {
27         cout << "Enter the name of the stock: ";
28         cin >> TheStocks.StockName;
29         cout << "Enter the estimated earning per share: ";
30         cin >> TheStocks.EstimatedEarningsPShare;
31         cout << "Enter the estimated price-to-earnings: ";
32         cin >> TheStocks.EstimatedPriceTEarning;
33         cout << "The anticipated stock price for the share of " << TheStocks.StockName << "'s Stock" << " is $" << fixed << setprecision(2) << TheStocks.EstimatedEarningsPShare * TheStocks.EstimatedPriceTEarning;
34         cout << endl;
35     }
36     return 0;
37 }
```

Output Window (Top Window):

```
Microsoft Visual Studio Debug Console
Enter the name of the stock: Ma
Enter the estimated earning per share: 10.1
Enter the estimated price-to-earnings: 20.3
The anticipated stock price for the share of Ma's Stock is $205.63

Enter the name of the stock: Addine
Enter the estimated earning per share: 15.3
Enter the estimated price-to-earnings: 33.4
The anticipated stock price for the share of Addine's Stock is $511.02

Enter the name of the stock: Anne
Enter the estimated earning per share: 20
Enter the estimated price-to-earnings: 35.2
The anticipated stock price for the share of Anne's Stock is $704.00

Enter the name of the stock: Tubice
Enter the estimated earning per share: 14.8
Enter the estimated price-to-earnings: 28
The anticipated stock price for the share of Tubice's Stock is $414.40

Enter the name of the stock: Carreon
Enter the estimated earning per share: 55
Enter the estimated price-to-earnings: 84.3
The anticipated stock price for the share of Carreon's Stock is $4636.50

C:\Users\Addine Carreon\Desktop\COMPUTER\LECTURE\Carreon_MP3\x64\Debug\Carreon_MP3.exe (process 4560) exited with code 0
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
```

Code Snippet (Bottom Window):

```
1 Bring stock name, estimated earnings per share, and its estimated price-to-earning ratio
2 on
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```

Output Window (Bottom Window):

```
Microsoft Visual Studio Debug Console
Enter the name of the stock: Ma
Enter the estimated earning per share: 10.1
Enter the estimated price-to-earnings: 20.3
The anticipated stock price for the share of Ma's Stock is $205.63

Enter the name of the stock: Addine
Enter the estimated earning per share: 15.3
Enter the estimated price-to-earnings: 33.4
The anticipated stock price for the share of Addine's Stock is $511.02

Enter the name of the stock: Anne
Enter the estimated earning per share: 20
Enter the estimated price-to-earnings: 35.2
The anticipated stock price for the share of Anne's Stock is $704.00

Enter the name of the stock: Tubice
Enter the estimated earning per share: 14.8
Enter the estimated price-to-earnings: 28
The anticipated stock price for the share of Tubice's Stock is $414.40

Enter the name of the stock: Carreon
Enter the estimated earning per share: 55
Enter the estimated price-to-earnings: 84.3
The anticipated stock price for the share of Carreon's Stock is $4636.50

C:\Users\Addine Carreon\Desktop\COMPUTER\LECTURE\Carreon_MP3\x64\Debug\Carreon_MP3.exe (process 4560) exited with code 0
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
```