How many points: 20 points

Due Date: Friday, January 29, 2021

5 bonus points if you coded it by using GUI: To earn bonus points, the homework need to be submitted on time and produce the correct output.

**What to submit**: submit to blackboard

1. your C# project code 18 points
2. Screen capture of running the code. A minimum of 5 screen captures with variety of scenarios. 2 points

Name your submission as your hw1YourLastNameYourFirstName

 Write a C# console application (or windows application for extra credit) to calculate the from profit the sale of a stock according to the following formula:

profit = ((NS\* SP) - SC) - (NS \* PP) + PC)

NS: number of shares

SP: sale price per share

SC: Sale commission paid

PP: purchase price per share

PC: Purchase commission paid

If the calculation results in positive value then the sale of the stock result in a profit, if negative it means loss.

On your submission make sure to include

//student name: Your name

//Date:

//Name of hw: HW#1: stock quotes

The code in C++ is as follow:

// Stock Profit

#include <iostream>

#include <iomanip>

using namespace std;

// Function prototype

double profit(double, double, double, double, double);

int main()

{

int ns; // Number of shares

double sp; // Sale price per share

double sc; // Sale commission

double pp; // Purchase price per share

double pc; // Purchase commission

double prof; // Profit from a sale

// Get the number of shares.

cout << "How many shares did you buy and then sell? ";

cin >> ns;

// Get the purchase price per share.

cout << "What price did you pay for the stock "

<< "per share? ";

cin >> pp;

// Get the purchase commission.

cout << "What was the purchase commission? ";

cin >> pc;

// Get the sale price per share.

cout << "What was the sale price per share? ";

cin >> sp;

// Get the sales commission.

cout << "What was the sales commission? ";

cin >> sc;

// Get the profit or loss.

prof = profit(ns, pp, pc, sp, sc);

// Display the result.

cout << "The profit from this sale of stock is $"

<< setprecision(2) << fixed << showpoint

<< prof << endl;

return 0;

}

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// The profit function accepts as arguments the number of \*

// shares, the purchase price per share, the purchase \*

// commission paid, the sale price per share, and the \*

// sale commission paid. The function returns the profit \*

// (or loss) from the sale of stock as a double. \*

// \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

double profit(double ns, double pp, double pc,

double sp, double sc)

{

return ((ns \* sp) - sc) - ((ns \* pp) + pc);

}

Sample I/O in c++

