CSCI 256 – Programming in Python   **Fall 2022**

Program 4

Programming Activity

Last month, you purchased some stock in Acme Software, Inc. Here are the details of the purchase:

- The number of shares that you purchased (e.g. 2000)
- When you purchased the stock, the amount you paid per share (e.g. $40.00)
- The commission you paid your stockbroker that amounted to 3% of the amount you paid for the stock

Two weeks later, you sold the stock. Here are the details of the sale:

- The number of shares that you sold (e.g. 2000)
- The amount you sold per share (e.g. $42.75)
- Another commission you paid your stockbroker that amounted to 3% of the amount you received for the stock

Write a program that calculates and displays the following information:

- The amount of money you paid for the stock
- The amount of commission you paid his broker when you bought the stock
- The amount for which you sold the stock
- The amount of commission you paid your broker when you sold the stock
- The amount of money you had left after you sold the stock and paid your broker (both times). If this amount is **positive**, then you made a profit; if the amount is **negative**, then you lost money.

You can name your program **stockYourLastName.py**

```
# prompt for inputs


# calculate information needed as specified


# display the output (output the dollar sign $ and 2 decimal places)
```

Include header comments (i.e., **at the beginning of your file**) formatted as shown below. Your electronic submission of the program file will represent your endorsement of the Honor Code Statement.   **Check Sample Output on next page!   -->**

```
# Course: CSCI 256, Section 1
# Student Name: Jane Doe
# Student ID: 12345678
# Program 4
# Due Date:

# In keeping with the Honor Code of UM, I have neither given nor
# received assistance from anyone other than the TA or the instructor.

# Program Description:
```

Sample Output

```
Enter number of shares that you purchased: 2000
Enter the amount you paid per share: 40
Enter number of shares that you sold two weeks later: 2000
Enter the amount you sold per share: 42.75


Your stock transaction info:
The amount of money you paid for the stock: $80000.00
The amount of commission you paid when you bought the stock: $2400.00
The amount of money you sold for the stock: $85500.00
The amount of commission you paid when you sold the stock: $2565.00


The amount of money left: $535.00
You made a profit!
```

Notice: You need to submit **<u>your program</u>** in Blackboard. Click on **Program 4** link in Bb, click **Browse My Computer**, attach the program, and click **Submit**.