

CMPE 285 Spring 2017

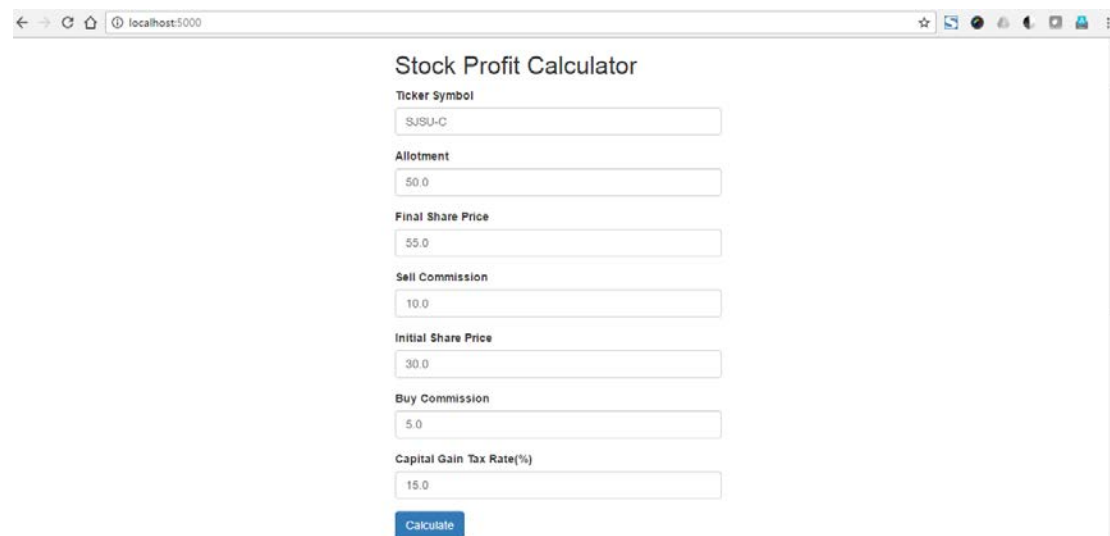
Homework 1 – Stock Profit Calculator

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Tutorial

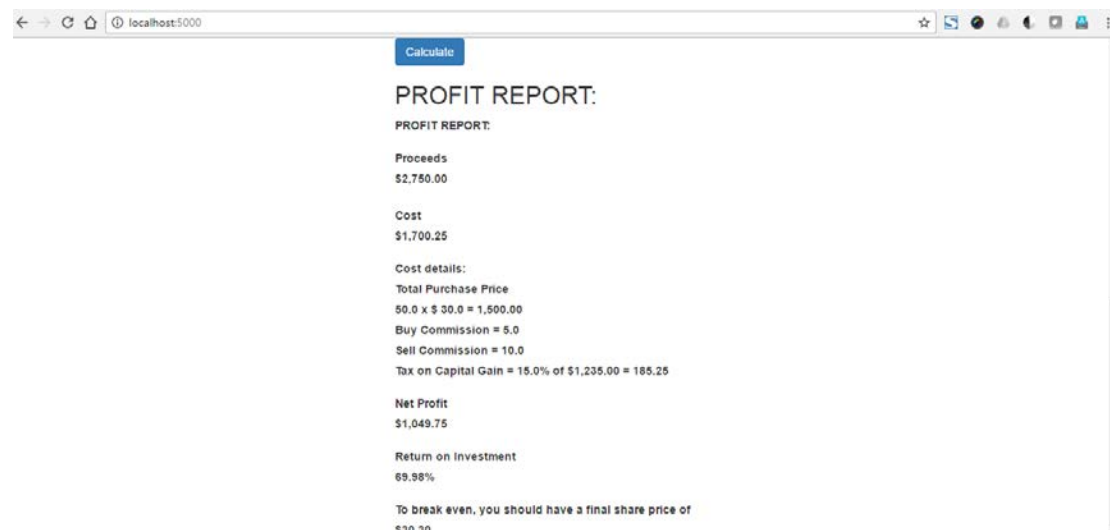
Extra Credit (Web App) Version

Input



A screenshot of a web browser showing a form titled "Stock Profit Calculator". The form contains several input fields with the following labels and values: "Ticker Symbol" (SJSU-C), "Allotment" (50.0), "Final Share Price" (55.0), "Sell Commission" (10.0), "Initial Share Price" (30.0), "Buy Commission" (5.0), and "Capital Gain Tax Rate(%)" (15.0). A blue "Calculate" button is at the bottom of the form.

Output



A screenshot of the same web browser showing the output of the "Calculate" button. The page displays a "PROFIT REPORT:" section with the following details:

- PROFIT REPORT:
- Proceeds: \$2,750.00
- Cost: \$1,700.25
- Cost details:
 - Total Purchase Price: 50.0 x \$ 30.0 = 1,500.00
 - Buy Commission = 5.0
 - Sell Commission = 10.0
 - Tax on Capital Gain = 15.0% of \$1,235.00 = 185.25
- Net Profit: \$1,049.75
- Return on Investment: 69.98%
- To break even, you should have a final share price of \$30.30

Command Line Version

Input

```
C:\cmd

C:\Users\MyPC\files_virtualbox\tmp-hw1>python hw1_stock_chen.py
Compute Your Profit:

Stock Symbol:
SJSU-C

Allotment(number of shares):
50

Final Share Price(in dollars):
55

Sell Commission(in dollars):
10

Initial Share Price(in dollars):
30

Buy Commission(in dollars):
5

Capital Gain Tax Rate(in %):
15
```

Output

```
C:\cmd

15

***PROFIT REPORT***
Proceeds
$2,750.00

Cost
$1,700.25

Cost details
Total Purchase Price:
50.00 X $30.00 = 1,500.00
Buy Commission = 5.00
Sell Commission = 10.00
Tax on Capital Gain = 15.00% of $1,235.00 = 185.25

Net Profit
$1,049.75

Return on Investment
69.98%

To break even, you should have a final share price of
$30.30
```

How to run

Environment

python --version: Python 2.7.10

OS: Windows 8.1

Extra Credit (Web App) Version

1. Open terminal for command line
2. Install the python flask using "pip install Flask"
3. Go to the app directory
4. Run the web app using python "python server_flask.py"
5. Then open web browser and type "localhost:5000" then press enter

Command Line Version

Open terminal for the command line, type : "python hw1_stock_chen.py"
then press enter button