**Winter 2016 - Cmpt 103**

**Section 41 - Lab 8 mark sheet**

**Student name:** Metehan Dagsuyu  **Total: 80 marks**

**Programming style: [7 marks]**

* Generally good spacing and comments
* Some variable are not named with the underscore approach (ie. currentPrice, purchasePrice, monthAndTemp): **-1**

**Question 1a: total\_purchase\_price [6 marks]**

* Function header for total\_purchase\_price:
  + The purpose should be calculate the total cost of a portfolio not just multiply the shares by their purchase price.
  + The syntax needs to start with ‘purchasePrice =’ as that is returned: **-0.5**
  + The parameter portfolio should be explained as in ‘portfolio: a list of tuples where each tuple has five fields for purchase date, purchase price, amount of shares, ticker symbol, and current price’: **-0.5**
* Does not initialize the purchase price running total to zero: **-1**
* Does not go through all stocks in the portfolio: **-1**
* Does not increment the running total with the purchase price for **each** stock in the portfolio: **-1**

**Question 1b: total\_value [6 marks]**

* Function header for total\_value:
  + The purpose should be calculate the current value of a portfolio not just multiply the shares by their current price.
  + The syntax needs to start with ‘currentPrice =’ as that is returned: **-0.5**
  + The parameter portfolio should be explained as in ‘portfolio: a list of tuples where each tuple has five fields for purchase date, purchase price, amount of shares, ticker symbol, and current price’: **-0.5**
* Does not initialize the total value running total to zero: **-1**
* Does not go through all stocks in the portfolio: **-1**
* Does not increment the running total with the current value for **each** stock in the portfolio: **-1**

**Question 1c: total\_gain [6.5 marks]**

* Function header for total\_gain:
  + The purpose should be calculate the total gain or loss of a portfolio not just find total gain or loss from stock.
  + The syntax needs to start with ‘result =’ as that is returned: **-0.5**
  + The parameter portfolio should be explained as in ‘portfolio: a list of tuples where each tuple has five fields for purchase date, purchase price, amount of shares, ticker symbol, and current price’
* Does not perform: total\_value(portfolio)– total\_purchase\_price(portfolio). It does the calculation in reverse: **-1**

**Question 1d: testQ1 [6 marks]**

* Function header parameter and return value are missing for testQ1: **-1**
* Does not call the three functions with a portfolio. It called them with a single stock which is not correct: **-1**

**Question 2a: month\_temp [7 marks]**

* Function header for month\_temp:
  + The purpose should say ‘find all uniquely observed temperatures’ and `for one month and return the answer in a set’.
  + The syntax needs to start with ‘unique =’ as that is the return value:  **-0.5**
  + The parameter ‘temp’ is not ‘the list of temperature data’. It is ‘a dictionary where each key is a month (string) and each value is a list of temperatures for that month’: **-0.5**

**Question 2b: common\_degrees [9 marks]**

* Function header for common\_degrees:
  + The purpose and return value should mention the return value is a set.
  + The syntax needs to start with ‘common =’ as that is the return value:  **-0.5**
  + The parameter ‘temp’ is not ‘the list of temperature data’. It is ‘a dictionary where each key is a month (string) and each value is a list of temperatures for that month’: **-0.5**

**Question 2c: rare\_degrees [8.5 marks]**

* Function header for rare\_degrees:
  + The purpose and return value should mention the return value is a set.
  + The syntax needs to start with ‘rare =’ as that is the return value:  **-0.5**
  + The parameter ‘temp’ is not ‘the list of temperature data’. It is ‘a dictionary where each key is a month (string) and each value is a list of temperatures for that month’
* You can’t change the original structure that you were passed. Otherwise, when it is tested on other functions, the data is incomplete. You need to first copy the data structure and then you can make changes to the duplicate: **-1**

**Question 2d: degree\_limits [9 marks]**

* Function header for degree\_limits:
  + The purpose should also include for each month.
  + The syntax needs to start with ‘lowHigh =’ as that is the return value:  **-0.5**
  + The parameter ‘temp’ is not ‘the list of temperature data’. It is ‘a dictionary where each key is a month (string) and each value is a list of temperatures for that month’
  + The return value should mention that it is a dictionary and explain the keys and values:  **-0.5**

**Question 2e: testQ2 [15 marks]**

* Function header for getData:
  + Syntax needs to start with temp = as that is returned:  **-0.5**
  + Missing parameter: **-0.5**
* Function header for testQ2:
  + Missing parameters and return value: **-1**
* There was a problem processing the data file. You wrote data = (f.read()).split("\n") which created a list with the last element as ['']. This caused the program to crash later on. Instead, do this data = (f.read()).split()
* Does not close the data file:  **-1**