**Group Activity 1A; CS 3060**

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Points: 5

**Tasks**: Below we have price information about different items, such as computer, table, pen, and chair.

Item price($)

Computer 400

Board 80

Pen 2

Chair 60

Desk 50

Eraser 3

Light 40

Let’s write some Ruby code to store and process some of the above information. Most of the code is given to you whereas you fill in the missing part.

*Task 1 (3 points): With Array*:

*1A*. Compute the average price of the items. Make the following code work on the *irb* interpreter.

*price = [400, 80, 2 ,60 ,50 ,3, 40] # fill up the blanks*

*i = 0*

*sum = 0*

*while i < 7*

*sum += price[i]*

*i += 1*

*end*

*avg = sum/i*

*p "average price is #{avg}"*

To-submit: Take a screenshot showing that this code works. Submit the screenshot.



*1B*. Compute the average price of the items. This time you use another loop construct (other than “*while-end*”). Work on the *irb* interpreter.

*price = [400, 80, 2 ,60 ,50 ,3, 40] # fill it up*

*i = 0*

*sum = 0*

*until i == 7*

*sum += price[i]*

*i += 1*

*end*

*avg = sum/i*

*p "average price is #{avg}"*

To-submit: Take a screenshot showing that this code works. Submit the screenshot.



*1C*. Save your code to a file named task1.rb and run by typing: *ruby task1.rb*

To-submit: Take a screenshot showing that the above works. Submit the screenshot.



*Task 2 (2 points): With Hash*:

*2A*. Compute the total price of a chair and a desk. Make the following code work on the *irb* interpreter.

Computer 400

Board 80

Pen 2

Chair 60

Desk 50

Eraser 3

Light 40

*priceMap = {"computer" => 400, # fill it up*

*"board" => 80,*

*“pen” => 2,*

*“chair => 60”,*

*“desk”=> 50,*

*“eraser” => 3,*

*“light” => 40*

*}*

*chairPrice = priceMap["chair"]*

*deskPrice = priceMap[“desk”]*

*total = chairPrice + deskPrice*

*p "total price of chair and desk is #{total}"*

To-submit: Take a screenshot showing that this code works. Submit the screenshot.



*2B*. Save your code to a file named task2.rb and run by typing: *ruby task2.rb*

To-submit: Take a screenshot showing that the above works. Submit the screenshot.



Bonus Problem (1 point): Compute the average price of the items using the Hash (i.e. priceMap) instead of Array (i.e. price). Hint: priceMap.to\_a[i][1] represents the price of i-th item.

To-submit: Submit your ruby file.