**Group Activity 1B; CS 3060; 02/05/2020**

**Names** of students in your group: Sidney Sanders, Jared Dukat, Hannah Rafeld

Points: 5

**Task**: Assume that we have a file named data.txt, which contains information about different items, such as computer, board, pen, chair, desk, and so on. The first few lines of the file are as follows, but we do not know the exact number of items (i.e., the exact number of lines) whereas the format of the whole file is similar.

Item does price($)

computer calculates 400

board holds 50

pen writes 1

chair supports 50

…

Write a Ruby program below, which will read the whole file and will report the following: (a) the number of items, (b) price of “desk”, and (c) name of the costliest item.

aFile = File.new("givenfile.txt", "r")

h = Hash.new(0)

i = 0

aFile.each do |line|

words = line.split # split func breaks line in words

h[words[0]] = words[2] # storing things in hash h

i +=1

end

p “number of lines: #{i}"

p “price of desk is: #{h[“desk”] }”

# Below write code to find the costliest item

h.each do |item,price|

p "#{item} #{price}"

end

costliestName = ""

costliestAmount = 0

h.each do |item, price|

if costliestAmount.to\_i < price.to\_i

costliestAmount = price

costliestName = item

end

end

p "Costliest item is #{costliestName}"

aFile.close

A screenshot of a cell phone

Description automatically generated

File contents:

computer calculates 400

board holds 500

desk does 50

Bonus problem (1 point): Extend your code to find (and report) the second-costliest item’s name.

**Submit** this word file (after completion) and a screenshot of output (of running the code) to Canvas.