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# Lab 4
# MSBA 605
# Due: 9/16/18
# Description: For this lab, extending the work in Lab 3.
#Use either your solution or your instructor's solution to Lab 3 and modify it as described below:
#Instead of reading the input from the keyboard, read the data in the attached gradebook.csv file.


def calcGrade(score): # Calculate letter grade given score
    if (score >= 90):
        grade = "A"
    elif (score >= 80):
        grade = "B"
    elif (score >= 70):
        grade = "C"
    elif (score >= 60):
        grade = "D"
    else:
        grade = "F"

    return grade

#Step 1: Read the file


scorefile = open("C:/Users/nxnguy01/Downloads/gradebook.csv","r")
headerlist= scorefile.readline()
headers=headerlist.split(",")


#Step 2: Create your indices
nameIndex = headers.index("Name") # Find name column
scoreIndex = headers.index("Score\n") #Find score column

#Step 3: Initialize your gradebook
gradebook = { }

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#Step 4: Read in the names,
for aline in scorefile:
    rowData = aline.split(',')
    name = rowData[nameIndex]
    score = float(rowData[scoreIndex])
    grade = calcGrade(score)
    gradebook.update({name:grade})

#Step 5: Close your file
scorefile.close()

#Step 6: Print your results
print("Gradebook Results (sorted alphabetically):")
#This is purely cosmetic, but it gives information about how results will be returned.

for key in sorted(gradebook.keys()) :   # This 'for' loop sorts my gradebook.
    print(key , " :: " , gradebook[key]) # This prints the key, as well as the associated value with that key.
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Results

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Gradebook Results (sorted alphabetically):
Abbie  ::  C
Aiden  ::  F
Alex  ::  B
Amelia  ::  B
Ava  ::  C
Ben  ::  B
Denise  ::  C
Elijah  ::  C
Emily  ::  B
Emma  ::  B
Ethan  ::  D
Jacob  ::  A
Jill  ::  A
Liam  ::  C
Lucas  ::  A
Mia  ::  A
Noah  ::  D
Olivia  ::  B
Robbie  ::  C
Sophia  ::  A
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