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# Due Sept. 16, 2018
# MSBA 605
# Lab 4
# For this lab, we are extending the work begun in Lab 3.
# we are asked to use either our solution or the instructor's
#solution to Lab 3 and modify it as described below:
#Instead of reading the input from the keyboard, we
#read the data in the attached gradebook.csv file and print results

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

    return grade

#the start of lab 4 code is here
score_File = open("C:/Users/nxnguy01/Downloads/gradebook.csv","r") #First we read the file
header_list= score_File.readline()
headers=header_list.split(",") #need the "," because this is a csv file

name_Index = headers.index("Name") #Must create the indices. Here find the name column
Index_Score = headers.index("Score\n") #This line will find score column

gradebook = { } #This will let us initialize the gradebook

for aline in score_File: #This for line will read in the names for the gradebook
    rowData = aline.split(',')
    Student_name = rowData[name_Index]
    Score = float(rowData[Index_Score])
    Student_grade = calcGrade(Score)
    gradebook.update({Student_name:Student_grade})#Dictionary


score_File.close() #Must have this statement to close the file

print("Results for the Student Gradebook:") #This will print the results

for key in sorted(gradebook.keys()) :   # The for loop here will sort the gradebook
    print(key , " :: " , gradebook[key]) # This line will print the key, and the associated value.

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Results

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Results for the Student Gradebook:
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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