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Lab 1
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CIS 41B
Driver code that uses Scores class to implement functions
from scores import Scores
# main() creates Scores object, reads the input file, and loops through
the menu options
    call functions
def main():
    s1 = Scores("input1.txt")
    s1.readFile()
    while True:
       menu options =
[0, printByTotal, printByLimit, denerateCountry, printByFrequency, 5]
       menu choice = displayMenu()
        if menu choice == 5:
           break
       menu options[menu choice] (s1)
# Prints menu option and validates user's input, returns the user's input
as an int
def displayMenu():
    print("\n1. Print by total score\n2. Print by limit\n3. Print one\n4.
Print score frequency\n5. Quit")
    user choice = int(input(">> Enter your choice:"))
    while user choice < 1 or user choice > 5:
        print("Error: Invalid Input")
        user choice = int(input(">> Enter your choice:"))
    return user choice
# Uses Scores object and its function to print the total score in
ascending order
def printByTotal(s1):
    s1.total scores()
# Prompts user for a limit and whether they want to go above or below to
pass into function
def printByLimit(s1):
    limit = input("Enter a score limit:")
    a b = input("Above or below {}? (a/b):".format(limit))
    if a b == 'a':
        s1.score limit(limit, True)
    elif a b == 'b':
        s1.score limit(limit)
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# Uses Score object to call funtion that checks the frequency of the
scores
def printByFrequency(s1):
    s1.score frequency()
# Generates a country and it's scores upon pressing the enter key, and
pressing any
   other key will exit the function
def generateCountry(s1):
   while True:
       user input = input("Press enter key to print a country record, or
enter any character to end: ")
        if user input == '':
            s1.generate country()
        else:
           break
main() #call to main()
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