Benjamin Harrison

Lesson 5 – 10/12/2024

Source code:

from random import choice

def addGrades(grades):

    print("Adding grades to the list")

    while (current\_grade := int(input("Enter a grade or -1 to stop "))) != -1:

        grades.append(current\_grade)

    print(grades)

def removeLowest(grades):

    print("Removing the lowest grade ")

    smallest\_index = grades.index(min(grades))

    grades.pop(smallest\_index)

    print(grades)

def editGrades(grades):

    for index, grade in enumerate(grades, start=1):

        print(f"{index}. {grade}")

    while True:

        edit = int(input(f"Which Grade would you like to edit (enter a number between 1 and {len(grades)}) "))

        if edit <= 0 or edit > len(grades):

            print("Please enter Valid Grade")

            edit = int(input(f"Which Grade would you like to edit (enter a number between 1 and {len(grades)}) "))

        grades[edit-1] = int(input("Enter the updated grade "))

        break

def missyelliott(grades):

    print("sorting Grades in numeric order")

    grades.sort()

    print (grades)

    print('reversing order of grades')

    grades.reverse()

    print(grades)

def total\_avg(grades):

    total\_grade = sum(grades)

    average\_grade = sum(grades) / len(grades)

    print("getting Grade total and average")

    print(total\_grade)

    print(average\_grade)

def main():

    Grades = []

    addGrades(Grades)

    removeLowest(Grades)

    print("Removing random grade")

    Grades.remove(choice(Grades))

    print(Grades)

    editGrades(Grades)

    print(Grades)

    missyelliott(Grades)

    print(Grades)

    total\_avg(Grades)

    print("completed by Benjamin Harrison")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

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