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#Grade analyzer code

#Ask for the person's name
name = input("Enter the student's name: ")

#Ask for the person's 4 test scores
try:
    score1 = int(input("Test 1 score: "))
    score2 = int(input("Test 2 score: "))
    score3 = int(input("Test 3 score: "))
    score4 = int(input("Test 4 score: "))
except ValueError:
    print("Please enter whole numbers only.")
    exit()

#Check that scores are not less than zero
if score1 < 0 or score2 < 0 or score3 < 0 or score4 < 0:
    print("Test scores must be greater than 0.")
    exit()

#Ask if the lowest grade should be dropped
drop_lowest = input("Do you want to drop the lowest grade? Enter Y or N: ").upper()

#Ensure Drop Lowest input is valid
if drop_lowest != 'Y' and drop_lowest != 'N':
    print("Enter Y or N to Drop the Lowest Grade.")
    exit()

#Calculate the average based on Drop Lowest choice
if drop_lowest == 'Y':
    # Manually check and drop the lowest grade
    if score1 <= score2 and score1 <= score3 and score1 <= score4:
        average = (score2 + score3 + score4) / 3
    elif score2 <= score1 and score2 <= score3 and score2 <= score4:
        average = (score1 + score3 + score4) / 3
    elif score3 <= score1 and score3 <= score2 and score3 <= score4:
        average = (score1 + score2 + score4) / 3
    else:
        average = (score1 + score2 + score3) / 3
else:
    # Average all 4 test scores
    average = (score1 + score2 + score3 + score4) / 4

#verify if the average is a float
average = float(average)

#Determine the letter grade based on the average
if average >= 90:
    letter_grade = "A"
elif average >= 80:
    letter_grade = "B"
elif average >= 70:
    letter_grade = "C"
elif average >= 60:
    letter_grade = "D"
else:
    letter_grade = "F"

# Output the results
print(f"\nGrade Report for {name}")
print(f"Average Score: {average:.2f}")
print(f"Letter Grade: {letter_grade}")

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