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# July 7, 2025
# P4HW1
# Brief description of program:
# This program asks the user how many grades they want to enter, collects them using a loop, checks if each grade is valid (between 0-100),
stores them in a list, then removes the lowest grade, calculates the average of the remaining grades, and displays the letter grade for that
average.
# Pseudocode:
# 1. Ask user how many grades they want to enter
# 2. Use a loop to collect valid grades (between 0-100)
# 3. Store grades in a list
# 4. Remove the lowest grade
# 5. Calculate the average of the remaining grades
# 6. Determine the letter grade (A-F)
# 7. Display:
    - lowest grade
    - modified grade list
     - average
    - letter grade
# Step 1: Ask user how many grades they want to enter
num grades = int(input("How many grades would you like to enter? "))
# Step 2: Create an empty list for the grades
grades = []
# Step 3: Loop to collect each grade
grade_number = 1
while len(grades) < num grades:
   try:
       grade = float(input(f"Enter grade #{grade number}: "))
       if grade < 0 or grade > 100:
           print("Invalid input! Grade must be between 0 and 100.")
           grades.append(grade)
           grade_number += 1
    except ValueError:
       print("Invalid input! Please enter a number.")
# Step 4: Remove the lowest grade
lowest = min(grades)
grades.remove(lowest)
# Step 5: Calculate average of remaining grades
average = sum(grades) / len(grades)
# Step 6: Determine letter grade
if average >= 90:
   letter = "A"
elif average >= 80:
   letter = "B"
elif average >= 70:
   letter = "C"
elif average >= 60:
   letter = "D"
else:
   letter = "F"
# Step 7: Display results
print("\n----")
print(f"Lowest Grade : {lowest}")
print(f"Modified Grade List: {grades}")
                     : {average:.2f}")
: {letter!"}
print(f"Average
print(f"Letter Grade
                         : {letter}")
print("----")
# Pause program before it closes (if needed)
input("\nPress Enter to exit...")
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