**Nested Loop**

Write a program that uses a loop to collect data and calculate the average rainfall over a period of years. The program should first ask for the number of years. The outer loop will iterate once for each year. The inner loop will iterate twelve times, once for each month. Each iteration of the inner loop will ask the user for inches of rainfall for that month. After all iterations, the program should display the number of months, the total inches of rainfall, and the average rainfall per month for the entire period.

# Declare variables to hold the total rainfall,

# monthly rainfall, average rainfall, the number

# of years, and the total number of months.

totalRainfall = 0.0

monthRainfall = 0.0

averageRainfall = 0.0

years = 0

totalMonths = 0

# Get number of years

years = int(input('Enter the number of years: '))

# Get rainfall by month

for year in range(years):

 print ('For year ', year + 1, ':')

 for month in range(12):

 monthRainfall = float(input( \

 'Enter the rainfall amount for the month: '))

 # Add to total number of months

 totalMonths += 1

 # Add to total rainfall amount

 totalRainfall += monthRainfall

# Calculate the average rainfallji

averageRainfall = totalRainfall / totalMonths

print('For ', totalMonths, 'months')

print('Total rainfall: ', format(totalRainfall, '.2f'),'inches')

print('Average monthly rainfall: ',format(averageRainfall, '.2f'),'inches')