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Connor Seemann Seat 23 Lab 5.1
#This program will calculate the average and the total of numbers entered
print("This program will calculate the average and the total of numbers
entered\n")
num = 1
entered = []
while True: #making this loop true until the break
   num = float( input("Please enter any number, to quit enter 0:\n") ) #
    getting the user input
    if num == 0 and len(entered) != 0: # checking for the quit statement
       break
    elif num == 0 and len(entered) == 0: # catches if the user has only
     entered 0 and resets the list
       print("You didn't enter any numbers...\n please try again\n")
       entered = []
    elif num != 0: # Continues normally and appends num to the entered list
       entered.append(num)
    else: # catches fall throughs for variables I didn't account for
       print("Please make sure you entered an integer...")
total = 0
for i in entered: # this loop will add the numbers together
   total += i
# output statements
print("You entered {} numbers.".format(len(entered)) )
print("The total is", total)
print("The average is", total/len(entered) )
   Connor Seemann Seat 23 Lab 5.2
#----#
# This program will tell people when they will be a millionaire from the
 amount they deposit with an intrest reate of 5.5%
print("This program will tell people when they will be a millionaire from the
 amount they deposit with an intrest reate of 5.5%\n\n")
          # a is the amount after t(1 + (r/n)) ** (nt) years
a = 0
t = 0 # t is time in years
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r = 0.055 # the rate is 5.5%
n = 1  # amount of times intrest is celcualted (
deposit = float( input("Enter your initial deposit: ") )
       = float( input("Please enter the rate as a percentage (ex: 5.5): ") )
      = r/100
r
       = float( input("Please enter the amount of times compounding per year:
"))
while a <= 1000000:
   a = deposit*(1 + (r/n))**(n * t)
   t += .00001 # Making the output more exact number of years
print ("\nfrom an initial deposit of {} with a rate of {} and compounding {}
time(s) per year, ".format(deposit, r, n) )
print ("You will be a millionair in {:.4f} years!".format(t))
# Connor Seemann Seat 23 Lab 5.3 #
#----#
# This program will display a staircase of numbers
print("This program will display a staircase of numbers")
for i in range(1, 7 + 1):
   for j in range(1, i):
       print(j, end='')
   print()
```