﻿"""

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@author: roryeggleston

"""

def mean1(l):

myMean = float(sum(l) / len(l))

return myMean

﻿l = [1, 2, 3, 4]

﻿mean1(l)

Out[3]: 2.5

﻿n [4]: def NotSum(l):

total = 0

for val in l:

total += val

return total

﻿def mean2(l):

myMean2 = float(NotSum(l) / len(l))

return myMean2

﻿NotSum(l)

Out[6]: 10

﻿mean2(l)

Out[7]: 2.5

﻿mylist2 = ['a', 3, '15']

﻿def mean4(x):

count = 0.0; mysum=0.0

for el in x:

#insert check of elements here

#check if element is an integer or a float

#if it is then continue

#print('element of x is':' + str(el))

print('element of x is:' + str(el))

if (type(el) == int) or (type(el) == float):

#keep a running sum

#mysum = mysum + el

mysum += el

#track how many elements

count += 1

#if not then leave function

else:

print('your list has non-numbers...exiting')

return

return mysum/count

﻿mean4(l)

element of x is:1

element of x is:2

element of x is:3

element of x is:4

Out[10]: 2.5

﻿list3 = [5, 5, 6, 6]

﻿mean2(list3)

Out[12]: 5.5

﻿﻿def NotSum(l):

total = 0

for val in l:

total += val

return total

﻿def NotLen(l):

ListLen = 0

for i in l:

ListLen += 1

return ListLen

﻿def mean3(l):

myMean3 = float(NotSum(l) / NotLen(l))

return myMean3

﻿mean3(list3)

Out[17]: 5.5

﻿def largest(l):

myMax = float('-inf')

for i in l:

print (i)

print (i > myMax)

if i > myMax:

myMax = i

return myMax

﻿def largest2(a,b,c):

#pseudocode:

#check if a is biggest

#if yes return a

#chck if b is bigger than c

#if yes return b

#else return c

if (a > b) and (a > c):

return a

elif (b > c):

return b

else:

return c

﻿largest2(23, 1101, 14)

list4 = [234, 345,456, 1204578]

l = [1, 5, 6, 4]

﻿largest(list4)

234

True

345

True

456

True

1204578

True

Out[21]: 1204578

﻿name = input('Enter your name: ')

age = int(input('What is your age?: '))

year100 = str(2019+(100-age))

print(name + " will be 100 years old in the year " + year100)

#you can't add a string and a list, it will say SCREW YOU if you do

Enter your name: Rory

What is your age?: 23

Rory will be 100 years old in the year 2096

﻿number = int(input('Enter a number: '))

#this required you to include int before the input bc otherwise it can't tell how to handle the input number

EvenOdd = number % 2

if EvenOdd > 0:

print ("Odd numbers produce decimal numbers when divided")

else:

print ("Even numbers always produce even numbers when multiplied")

Enter a number: 34

Even numbers always produce even numbers when multiplied

﻿import random

GuessNumber = random.randint(1,9)

guess = 0

count = 0

while guess != GuessNumber and guess != "Exit":

guess = input("What is your guess?: ")

if guess == "Exit":

break

guess = int(guess)

count += 1

if guess < GuessNumber:

print("Your number was too low.")

elif guess > GuessNumber:

print("Your number was too high.")

else:

print("Your number matches my number!")

print("And it only took you ",count," guesses!")

# MAKE SURE TO CHECK YOU HAVE ALL QUOTES, APOSTROPHES, AND PARENTHESES/BRACKETS OR SURPRISE SURPRISE IT WON'T WORK YA BIG NUMBSKULL

What is your guess?: 23

Your number was too high.

What is your guess?: 1

Your number was too low.

What is your guess?: 3

Your number was too low.

What is your guess?: 5

Your number was too low.

What is your guess?: 6

Your number was too low.

What is your guess?: 7

Your number matches my number!

And it only took you 6 guesses!

﻿def generate\_fib():

FibNumber = int(input("How many Fibonnaci numbers do you want?: "))

i = 1

if FibNumber == 0:

fi = []

elif FibNumber == 1:

fi = [1]

elif FibNumber == 2:

fi = [1,1]

elif FibNumber > 2:

fi = [1,1]

while i < (FibNumber - 1):

fi.append(fi[i] + fi[i-1])

#append adds a selected thing onto the end of a list, so combined with the += thing, you get the Fib iterations of the desired length

i += 1

return fi

print (generate\_fib())

#STOP FORGETTING TO INCLUDE PRINT YOU TWIT

How many Fibonnaci numbers do you want?: 5

[1, 1, 2, 3, 5]

﻿

import random

MIN = 0

MAX = 100

NUMBER = random.randint(MIN, MAX)

#this bit is the thing that will "guess" a number

TRY = 0

#this keeps track of the number of attempts

RUNNING = True

#this just asks whether the game is still going, if the answer was correct, it will switch to False

ANSWER = None

#Keeps track of the current answer from the user (correct, too low, etc)

while RUNNING:

print ("Is %s too high, too low, or correct?" % str(NUMBER))

ANSWER = input()

#input is whatever the user says (correct, too high, etc)

if "no" in ANSWER.lower() and "too high" in ANSWER.lower():

NUMBER -= random.randint(1, 4)

#if the answer given by the user includes "no" and "too high" then the program will guess between 1 and 4 integers lower

elif "no" in ANSWER.lower() and "too low" in ANSWER.lower():

NUMBER += random.randint(1, 4)

#if the answer given by the user include "no" and "too low" then the program will guess between 1 and 4 integers higher

elif ANSWER.lower() == "no":

print ("Higher or lower?")

#if the user simply says "no", the program will ask "Higher or lower?"

Answer = input()

if ANSWER.lower() == "higher":

NUMBER += random.randint(1, 4)

#if the user answers "higher" then the program will guess between 1 and 4 integers higher

elif ANSWER.lower() == "lower":

NUMBER -= random.randint(1, 4)

#if the user answers "lower" then the program will guess between 1 and 4 integers lower

elif ANSWER.lower() == "correct":

if TRY < 2:

print ("Hooray, I did it in %s try!" % str(TRY))

#if the user answers "correct", the program will tally the tries and if they are less than two, will return this message

elif TRY < 2 and TRY < 5:

print ("It took me %s tries, not too bad, right?" % str(TRY))

#if the user answers "correct", the program will tally the tries and if they are greater than 2 but less than 5 it will return this message

else:

print ("Awwww, that took me %s tries" % str(TRY))

#if the user answers "correct", the program will tally the tries and if they are more than 5 it will return this message

RUNNING = False

TRY += 1

print ("Thanks for playing this game with me!")

Is 72 too high, too low, or correct?

Too high

Is 72 too high, too low, or correct?

too high

Is 72 too high, too low, or correct?

correct

Awwww, that took me 2 tries

Thanks for playing this game with me!