ITSE 1302

Travis Doporto

Lesson 5 Assignment

A screenshot of a computer program

Description automatically generated

import random

# smallest\_index = numbers.index(min(numbers))

# numbers.pop(smallest\_index)

# numbers.sort(reverse=True)

# print(numbers)

# print(choice(numbers))

# print(sum(numbers))

# print(len(numbers))

# print(smallest\_index)

def minimum(numbers):

    numbers.pop(numbers.index(min(numbers)))

    print(numbers)

def get\_total(numbers):

    total = sum(numbers)

    return total

def get\_average(numbers):

    total = sum(numbers)

    average = total / len(numbers)

    return average

def remove\_lowest(numbers):

    numbers.remove(random.choice(numbers))

    print(numbers)

def sort\_new(numbers):

    numbers.sort(reverse=True)

    print(numbers)

def main():

    numbers = []

    current\_grade = 0

    while current\_grade != -1:

        current\_grade = int(input("Enter your grade: "))

        if current\_grade == -1:

            break

        numbers.append(current\_grade)

    print(numbers)

    print("Removing lowest grade.")

    minimum(numbers)

    print("Removing a random grade.")

    remove\_lowest(numbers)

    for counter, item in enumerate(numbers, start=1):

        print(f"{counter}. {item}")

    edit = int(input("Whigh grade would you like to edit: "))

    while edit < 0 or edit > counter:

        edit = int(input("Whigh grade would you like to edit: "))

    numbers[edit-1] = int(input("Enter your new grade: "))

    print(numbers)

    print("Sorting and reversing the list: ")

    sort\_new(numbers)

    print(f"Total:  {get\_total(numbers)}")

    print(f"Average: {get\_average(numbers)}")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

print("\n" + "---"\*15)

print("Completed by Travis Doporto.")

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from random import randrange

def rock\_paper\_scissors():

    play\_again = "y"

    random\_number = randrange(1, 3)

    userWeapon = "Enter your weapon: "

    compWeapon = random\_number

    print("SELECT YOUR WEAPON (1-3)")

    print("\n" + "---"\*15)

    print("1. Rock \n2. Paper \n3. Scissors")

    int(input(userWeapon))

    for userWeapon in range(1, 3):

        compWeapon = int(random\_number)

        if userWeapon == 1 and compWeapon == 2:

            print("Paper covers rock, you win!")

            return

        elif userWeapon == 1 and compWeapon == 3:

            print("Rock crushes scissors, you win!")

            return

        elif userWeapon == 1 and compWeapon == 1:

            print("It's a tie!")

            return

        elif userWeapon == 2 and compWeapon == 2:

            print("It's a tie!")

            return

        elif userWeapon == 2 and compWeapon == 1:

            print("Paper covers rock, you win!")

            return

        elif userWeapon == 2 and compWeapon == 3:

            print("Scissors cut paper, you lose!")

            return

        elif userWeapon == 3 and compWeapon == 3:

            print("It's a tie!")

            return

        elif userWeapon == 3 and compWeapon == 2:

            print("Scissors cut paper, you win!")

            return

        elif userWeapon == 3 and compWeapon == 1:

            print("Rock crushes scissors, you lose!")

            return

def main():

    play\_again = "y"

    while play\_again == "y":

        rock\_paper\_scissors()

        play\_again = input("Would you like to play again? (y/n): ").lower()

        while play\_again.lower() != "y" and play\_again.lower() != "n":

            play\_again = input("Invalid Input! Would you liwk to play again? (y/n): " ).lower()

    print("\n" + "---"\*15)

    print("Completed by Travis Doporto.")

if \_\_name\_\_ == "\_\_main\_\_":

    main()