trinket Python3 Run

main.py

```
# Starting file for Exercise 3-1

# display a welcome message
print("The Miles Per Gallon application")
print()

repeat_msg = "y"

while repeat_msg.lower() == "y":
    # get input from the user
    miles_driven = float(input("Enter miles driven:         "))
    gallons_used = float(input("Enter gallons of gas used:  "))
    cost_per_gallon = float(input("Enter cost per gallon:   "))

    if miles_driven <= 0:
        print("\nMiles driven must be greater than zero. Please try again.")
    elif gallons_used <= 0:
        print("\nGallons used must be greater than zero. Please try again.")
    elif cost_per_gallon <= 0:
        print("\nCost per gallon of gas must be greater than zero. Please try again.")
    else:
        # inputs must be good
        # calculate entered data
        mpg = round((miles_driven / gallons_used), 2)
        tgc = round((gallons_used * cost_per_gallon), 2)
        cpm = round((tgc / miles_driven), 1)

        #display calculated values
        print("\nMiles Per Gallon:      ", mpg)
        print("Total Gas Cost:        ", tgc)
        print("Cost Per Mile:         ", cpm)
        print()

    #Ask if user wants to repeat
    repeat_msg = input("\nGet entries for another trip (y/n)?")
    print()

print("\nBye!")
```

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```
The Miles Per Gallon application

Enter miles driven:          150
Enter gallons of gas used:   15
Enter cost per gallon:    4

Miles Per Gallon:       10.0
Total Gas Cost:         60.0
Cost Per Mile:          0.4


Get entries for another trip (y/n)? y

Enter miles driven:          225
Enter gallons of gas used:   16
Enter cost per gallon:    3

Miles Per Gallon:       14.06
Total Gas Cost:         48.0
Cost Per Mile:          0.2


Get entries for another trip (y/n)? n


Bye!
```

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main.py

```
# starting file for Exercise 3-2

# be sure to follow along with my video demonstration video in our Canvas assignment instruct

# display a welcome message
print("The test scores program\n")
print("Enter test scores")
print("Enter 'end' to end input")
print("==============================")

anotherSet = "y"

while anotherSet.lower() == "y":
    # initialize variables for a new set
    counter = 0
    score_total = 0

    while True:
        test_score_input = input("Enter test score: ").strip()

        if test_score_input.lower() == "end":
            break

        try:
            test_score = int(test_score_input)
            if 0 <= test_score <= 100:
                score_total += test_score
                counter += 1
            else:
                print("Test score must be from 0 through 100. Try again.")
        except ValueError:
            print("Invalid input. Please enter a number or 'end'.")

    if counter > 0:
        #calculate average score
        average_score = round(score_total / counter)
        #format and display results
        print("==============================")
        print("Total Score:", score_total)
        print("Average Score:", average_score)
    else:
        print("\nInvalid scores were entered.")
    #ask for another set
    anotherSet = input("\nEnter another set of test scores (y/n)? ").strip().lower()

print("\nGoodbye. Thanks for using the test scores program!")

```

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```
The test scores program

Enter test scores
Enter 'end' to end input
==============================
Enter test score:  85
Enter test score:  75
Enter test score:  95
Enter test score:  end
==============================
Total Score: 255
Average Score: 85

Enter another set of test scores (y/n)?  n

Goodbye. Thanks for using the test scores program!
```