

converter1

October 7, 2022

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[1]: while True:
    print("""
    *****

    1-1 - temperature-fahrenheit to celsius
    1-2 - temperature-celsius to fahrenheit
    2-1 - length-miles to km
    2-2 - length-km to miles
    3-1 - weight-pound to kilograms
    3-2 - weight-kilograms to pound
    4 - pressure
    5 - Exit.

    *****

    """)

    choice = input("What would you like to do?")

    if choice == "1-1":
        fahrenheit = float(input("Enter temperature in fahrenheit: "))
        celsius = (fahrenheit - 32) * 5/9
        print('%0.2f Fahrenheit is: %0.2f Celsius' %(fahrenheit, celsius))

    elif choice == "1-2":
        celsius = float(input("Enter temperature in celsius: "))
        fahrenheit = (celsius * 9/5) + 32
        print('%0.2f Celsius is: %0.2f Fahrenheit' %(celsius, fahrenheit))

    elif choice == "2-1":
        miles = float(input("Enter the value in miles: "))
        conversion_factor = 1.60934
        kilometers = miles * conversion_factor
        print('%0.4f miles = %0.4f kilometers' %(miles, kilometers))

    elif choice == "2-2":
        # Taking kilometers input from the user
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kilometers = float(input("Enter value in kilometers: "))
# conversion factor
conv_fac = 0.621371
# calculate miles
miles = kilometers * conv_fac
print('%0.2f kilometers is equal to %0.2f miles' %(kilometers,miles))

elif choice == "3-1":
    # Write a program that asks the user to enter a weight in pounds.
    # The program should convert it to kilograms using the formula.
    pounds = float(input('Enter weight in Pounds(Lbs) to Convert into_
→Kilograms:'))
    # 1 Pound = 0.453592 Kilograms
    kilo_grams = pounds * 0.453592
    print(pounds, ' Pounds (Lbs) are equal to', kilo_grams, 'Kilograms (Kgs)')

elif choice == "3-2":
    # Write a program that asks the user to enter a weight in kilograms.
    # The program should convert it to pounds using the formula.
    kilo_grams = float(input('Enter weight in Kg to Convert into pounds:'))
    # 1 kg = 2.2046 pounds
    pounds = kilo_grams * 2.2046
    print(kilo_grams, ' Kilograms =', pounds, ' Pounds')

elif choice == "4":
    kpa = float(input("Input pressure in in kilopascals> "))
    psi = kpa / 6.89475729
    mmhg = kpa * 760 / 101.325
    atm = kpa / 101.325
    print("The pressure in pounds per square inch: %.2f psi" % (psi))
    print("The pressure in millimeter of mercury: %.2f mmHg" % (mmhg))
    print("Atmosphere pressure: %.2f atm." % (atm))

elif choice == "5":
    exit
    break

else:
    print("Error, invalid choice")

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1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles

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3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?1-1
Enter temperature in fahrenheit: 10
10.00 Fahrenheit is: -12.22 Celsius

1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles
3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?1-2
Enter temperature in celsius: 10
10.00 Celsius is: 50.00 Fahrenheit

1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles
3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?2-1
Enter the value in miles: 10
10.0000 miles = 16.0934 kilometers

1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles
3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?2-2
Enter value in kilometers: 10
10.00 kilometers is equal to 6.21 miles

1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles
3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?3-1
Enter weight in Pounds(Lbs) to Convert into Kilograms:10
10.0 Pounds (Lbs) are equal to 4.53592 Kilograms (Kgs)

1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles
3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?3-2
Enter weight in Kg to Convert into pounds:10
10.0 Kilograms = 22.046 Pounds

1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles
3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?4
Input pressure in in kilopascals> 10
The pressure in pounds per square inch: 1.45 psi
The pressure in millimeter of mercury: 75.01 mmHg
Atmosphere pressure: 0.10 atm.

1-1 - temperature-fahrenheit to celsius
1-2 - temperature-celsius to fahrenheit
2-1 - length-miles to km
2-2 - length-km to miles
3-1 - weight-pound to kilograms
3-2 - weight-kilograms to pound
4 - pressure
5 - Exit.

What would you like to do?5