1. Write a Python program to convert kilometers to miles?

A.

kilometers = float(input("Enter distance in kilometers: "))

conv\_fac = 0.621371

miles = kilometers \* conv\_fac

print("{0} kilometers is equal to {1} miles".format(kilometers, miles))

1. Write a Python program to convert Celsius to Fahrenheit?

A.

celsius = float(input("Enter temperature in Celsius: "))

fahrenheit = (celsius \* 1.8) + 32

print("{0} degrees Celsius is equal to {1} degrees Fahrenheit".format(celsius, fahrenheit))

1. Write a Python program to display calendar?

A. import calendar

year = int(input("Enter year: "))

month = int(input("Enter month: "))

print(calendar.month(year, month))

1. Write a Python program to solve quadratic equation?

A. import math

a = float(input("Enter the coefficient of x^2: "))

b = float(input("Enter the coefficient of x: "))

c = float(input("Enter the constant term: "))

discriminant = b\*\*2 - 4\*a\*c

if discriminant > 0:

root1 = (-b + math.sqrt(discriminant)) / (2\*a)

root2 = (-b - math.sqrt(discriminant)) / (2\*a)

print("The roots are real and distinct.")

print("Root 1 =", root1)

print("Root 2 =", root2)

elif discriminant == 0:

root = -b / (2\*a)

print("The roots are real and equal.")

print("Root 1 = Root 2 =", root)

else:

real\_part = -b / (2\*a)

imaginary\_part = math.sqrt(abs(discriminant)) / (2\*a)

# display the roots

print("The roots are complex conjugates.")

print("Root 1 =", real\_part, "+", imaginary\_part, "i")

print("Root 2 =", real\_part, "-", imaginary\_part, "i")

1. Write a Python program to swap two variables without temp variable?

A. # take input for the two variables

x = int(input("Enter the value of x: "))

y = int(input("Enter the value of y: "))

# swap the values of the variables

x, y = y, x

# display the values of the variables after swapping

print("After swapping:")

print("x =", x)

print("y =", y)