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

Sol:- kilometers = float(input("Enter value in kilometers: "))

conv\_fac = 0.621371 # Conversion factor

miles = kilometers \* conv\_fac

print('%0.2f kilometers is equal to %0.2f miles' %(kilometers,miles))

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

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

fahrenheit = (celsius \* 9/5) + 32

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

1. Write a Python program to display calendar?

Sol:- import calendar

# Enter the year and month for which you want to display the calendar

year = 2023

month = 5

# Display the calendar for the given year and month

print(calendar.month(year, month))

1. Write a Python program to solve quadratic equation?

Sol:- import cmath

def solve\_quadratic(a, b, c):

# calculate the discriminant

d = (b\*\*2) - (4\*a\*c)

# find the two solutions

sol1 = (-b - cmath.sqrt(d)) / (2\*a)

sol2 = (-b + cmath.sqrt(d)) / (2\*a)

return sol1, sol2

# example usage

a = 1

b = -5

c = 6

solution1, solution2 = solve\_quadratic(a, b, c)

print(f"The solutions to the equation {a}x^2 + {b}x + {c} are {solution1} and {solution2}")

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

Sol:- a = 5

b = 10

a, b = b, a

print("a =", a)

print("b =", b)