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

Ans. # Taking kilometers input from the user

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))

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

Ans. celsius = 37.5

# calculate fahrenheit

Fahrenheit = (celsius \* 1.8) + 32

print('%0.1f degree Celsius is equal to %0.1f degree Fahrenheit' %(celsius,fahrenheit))

3.Write a Python program to display calendar?

Ans. import calendar

yy = 2022 # year

mm = 10 # month

# display the calendar

print(calendar.month(yy, mm))

4.Write a Python program to solve quadratic equation?

Ans. import cmath

a = 1

b = 5

c = 6

# calculate the discriminant

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

# find two solutions

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

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

print('The solution are {0} and {1}'.format(sol1,sol2))

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

Ans. x = 5

y = 7

print ("Before swapping: ")

print("Value of x : ", x, " and y : ", y)

# code to swap 'x' and 'y'

x, y = y, x

print ("After swapping: ")

print("Value of x : ", x, " and y : ", y)