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

Ans- # Function to convert kilometers to miles

def km\_to\_miles(km):

miles = km \* 0.621371

return miles

# Test value

kilometers = 10

# Call the function and print the result

miles\_result = km\_to\_miles(kilometers)

print(f"{kilometers} kilometers is equal to {miles\_result} miles.")

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

Ans- # Function to convert Celsius to Fahrenheit

def celsius\_to\_fahrenheit(celsius):

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

return fahrenheit

# Test value

celsius\_temperature = 25

# Call the function and print the result

fahrenheit\_result = celsius\_to\_fahrenheit(celsius\_temperature)

print(f"{celsius\_temperature} degrees Celsius is equal to {fahrenheit\_result} degrees Fahrenheit.")

1. **Write a Python program to display calendar?**

Ans- import calendar

# Function to display the calendar

def display\_calendar(year, month):

cal = calendar.month(year, month)

return cal

# Test values

year = 2023

month = 8

# Call the function and print the calendar

calendar\_output = display\_calendar(year, month)

print(f"Calendar for {calendar.month\_name[month]} {year}:\n")

print(calendar\_output)

1. **Write a Python program to solve quadratic equation?**

Ans- import cmath

# Function to solve quadratic equation ax^2 + bx + c = 0

def quadratic\_solver(a, b, c):

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

root1 = (-b + d) / (2 \* a)

root2 = (-b - d) / (2 \* a)

return root1, root2

# Test values

a = 1

b = -3

c = 2

# Call the function and print the roots

root1, root2 = quadratic\_solver(a, b, c)

print(f"Root 1: {root1}")

print(f"Root 2: {root2}")

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

Ans:- # Function to swap two variables without a temporary variable

def swap\_variables(a, b):

a, b = b, a

return a, b

# Test values

x = 5

y = 10

# Call the function and print the result

x, y = swap\_variables(x, y)

print("After swapping:")

print("x =", x)

print("y =", y)