COGNIFYZ TECHNOLOGIES

Software Development Intern Tasks List 4

**Task 4: Build a temperature converter program.**

**Objective: Enable users to input temperatures and choose the conversion direction between**

**Fahrenheit and Celsius.**

Steps:

1.Design a program to accept temperature input.

2.Implement logic for temperature conversion.

3.Allow users to choose the conversion direction.

4.Test the program with different input values.

CODE:

def celsius\_to\_fahrenheit(celsius):

"""Convert Celsius to Fahrenheit."""

return (celsius \* 9/5) + 32

def fahrenheit\_to\_celsius(fahrenheit):

"""Convert Fahrenheit to Celsius."""

return (fahrenheit - 32) \* 5/9

def temperature\_converter():

"""Main program to convert temperatures."""

print("Welcome to the Temperature Converter!")

print("Choose the conversion direction:")

print("1. Celsius to Fahrenheit")

print("2. Fahrenheit to Celsius")

try:

choice = int(input("Enter 1 or 2 to choose the conversion direction: "))

if choice == 1:

# Convert Celsius to Fahrenheit

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

fahrenheit = celsius\_to\_fahrenheit(celsius)

print(f"{celsius}°C is equal to {fahrenheit}°F")

elif choice == 2:

# Convert Fahrenheit to Celsius

fahrenheit = float(input("Enter the temperature in Fahrenheit: "))

celsius = fahrenheit\_to\_celsius(fahrenheit)

print(f"{fahrenheit}°F is equal to {celsius}°C")

else:

print("Invalid choice. Please choose 1 or 2.")

except ValueError:

print("Invalid input. Please enter a valid number.")

# Run the program

temperature\_converter()





