**Activity 8**

Write a python program to convert temperature to and from Celsius to Fahrenheit.

def celsius\_to\_fahrenheit(celsius):

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

    return fahrenheit

def fahrenheit\_to\_celsius(fahrenheit):

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

    return celsius

while True:

    print("\nOptions:")

    print("1. Convert Celsius to Fahrenheit")

    print("2. Convert Fahrenheit to Celsius")

    print("3. Exit")

    choice = input("Enter your choice (1/2/3): ")

    if choice == '1':

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

        result = celsius\_to\_fahrenheit(celsius)

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

    elif choice == '2':

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

        result = fahrenheit\_to\_celsius(fahrenheit)

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

    elif choice == '3':

        print("Exiting the program.")

        break

    else:

        print("Invalid choice. Please enter 1, 2, or 3.")