def celsius\_to\_fahrenheit(celsius):

return (celsius \* 9/5) + 32

def fahrenheit\_to\_celsius(fahrenheit):

return (fahrenheit - 32) \* 5/9

def meters\_to\_feet(meters):

return meters \* 3.28084

def feet\_to\_meters(feet):

return feet / 3.28084

def kilograms\_to\_pounds(kg):

return kg \* 2.20462

def pounds\_to\_kilograms(lbs):

return lbs / 2.20462

def unit\_converter():

print("Welcome to the Unit Converter!")

print("Select an option:")

print("1. Temperature Converter: Celsius <-> Fahrenheit")

print("2. Length Converter: Meters <-> Feet")

print("3. Weight Converter: Kilograms <-> Pounds")

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

if choice == '1':

value = float(input("Enter the temperature value: "))

source\_unit = input("Enter source unit (C for Celsius, F for Fahrenheit): ").upper()

if source\_unit == 'C':

result = celsius\_to\_fahrenheit(value)

print(f"{value} Celsius is equal to {result} Fahrenheit")

elif source\_unit == 'F':

result = fahrenheit\_to\_celsius(value)

print(f"{value} Fahrenheit is equal to {result} Celsius")

else:

print("Invalid unit. Please enter C or F.")

elif choice == '2':

value = float(input("Enter the length value: "))

source\_unit = input("Enter source unit (M for Meters, F for Feet): ").upper()

if source\_unit == 'M':

result = meters\_to\_feet(value)

print(f"{value} Meters is equal to {result} Feet")

elif source\_unit == 'F':

result = feet\_to\_meters(value)

print(f"{value} Feet is equal to {result} Meters")

else:

print("Invalid unit. Please enter M or F.")

elif choice == '3':

value = float(input("Enter the weight value: "))

source\_unit = input("Enter source unit (K for Kilograms, P for Pounds): ").upper()

if source\_unit == 'K':

result = kilograms\_to\_pounds(value)

print(f"{value} Kilograms is equal to {result} Pounds")

elif source\_unit == 'P':

result = pounds\_to\_kilograms(value)

print(f"{value} Pounds is equal to {result} Kilograms")

else:

print("Invalid unit. Please enter K or P.")

else:

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

unit\_converter()