def celsius\_to\_fahrenheit(celsius):

return (celsius \* 9/5) + 32

def celsius\_to\_kelvin(celsius):

return celsius + 273.15

def fahrenheit\_to\_celsius(fahrenheit):

return (fahrenheit - 32) \* 5/9

def fahrenheit\_to\_kelvin(fahrenheit):

return fahrenheit\_to\_celsius(fahrenheit) + 273.15

def kelvin\_to\_celsius(kelvin):

return kelvin - 273.15

def kelvin\_to\_fahrenheit(kelvin):

return (kelvin\_to\_celsius(kelvin) \* 9/5) + 32

def convert\_temperature(value, unit):

if unit.lower() == 'c':

fahrenheit = celsius\_to\_fahrenheit(value)

kelvin = celsius\_to\_kelvin(value)

print(f"{value}°C is equal to {fahrenheit:.2f}°F and {kelvin:.2f}K.")

elif unit.lower() == 'f':

celsius = fahrenheit\_to\_celsius(value)

kelvin = fahrenheit\_to\_kelvin(value)

print(f"{value}°F is equal to {celsius:.2f}°C and {kelvin:.2f}K.")

elif unit.lower() == 'k':

celsius = kelvin\_to\_celsius(value)

fahrenheit = kelvin\_to\_fahrenheit(value)

print(f"{value}K is equal to {celsius:.2f}°C and {fahrenheit:.2f}°F.")

else:

print("Invalid unit. Please enter 'C' for Celsius, 'F' for Fahrenheit, or 'K' for Kelvin.")

def main():

try:

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

unit = input("Enter the unit of the temperature (C for Celsius, F for Fahrenheit, K for Kelvin): ")

convert\_temperature(value, unit)

except ValueError:

print("Invalid input. Please enter a numeric value for the temperature.")

if \_\_name\_\_ == "\_\_main\_\_":

main()