



# ***NORTH WESTERN UNIVERSITY***

## ***KHULNA***

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***Report name: Temperature Converter***

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## Introduction

A temperature converter helps convert the temperature between Fahrenheit and Celsius scale. Temperature is measured using a thermometer. While Kelvin (K) is the SI unit of temperature, people generally use Centigrade or Celsius ( $^{\circ}\text{C}$ ) and Fahrenheit ( $^{\circ}\text{F}$ ) to measure temperature. The temperature converter formula is used to convert Celsius to Fahrenheit.

### Units of Temperature :

Different units can be used to record the temperature. The three different units used for measuring temperature are Celsius ( $^{\circ}\text{C}$ ) Fahrenheit ( $^{\circ}\text{F}$ ), and Kelvin (K). Kelvin is the SI unit of measuring temperature, whereas Fahrenheit and Celsius are commonly used scales.

### Celsius :

Celsius scale was Invented in 1742 by Swedish astronomer Anders Celsius and hence named after him. Celsius, also called centigrade, is based on the freezing point of water which is  $0^{\circ}$ , and the boiling point of water which is  $100^{\circ}$ . The temperature in Celsius is represented with  $^{\circ}\text{C}$ . Normal human body temperature is  $37^{\circ}\text{C}$ .

### Fahrenheit :

The Fahrenheit scale is a temperature scale developed by Daniel Gabriel Fahrenheit and hence named after him. This scale has the boiling point of water at  $212^{\circ}\text{F}$  and the freezing point at  $32^{\circ}\text{F}$ . The temperature in Fahrenheit is represented with  $^{\circ}\text{F}$ . The normal human body temperature is  $98.6^{\circ}\text{F}$ .

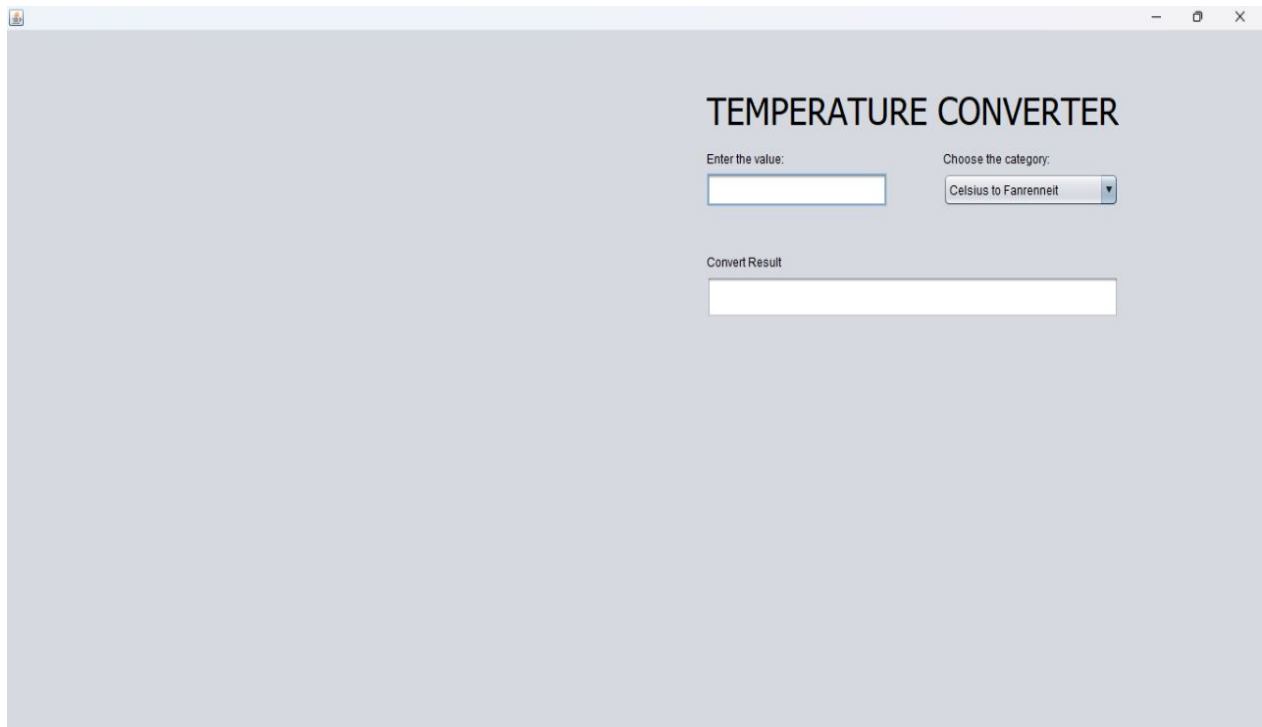
### Kelvin :

Kelvin is the SI unit of temperature. The unit symbol is K. It is named after the physicist William Thomson, 1st Baron Kelvin (1824–1907). Here the degree symbol  $^{\circ}$  is not used to represent the temperature, unlike in Celsius or Fahrenheit.

# Description

## 1. User Interface:

Here you need to enter the value in the Enter the value box, you need to enter the value which you want to convert, if you want to convert Celsius to Fahrenheit then you need to enter the value of Celsius

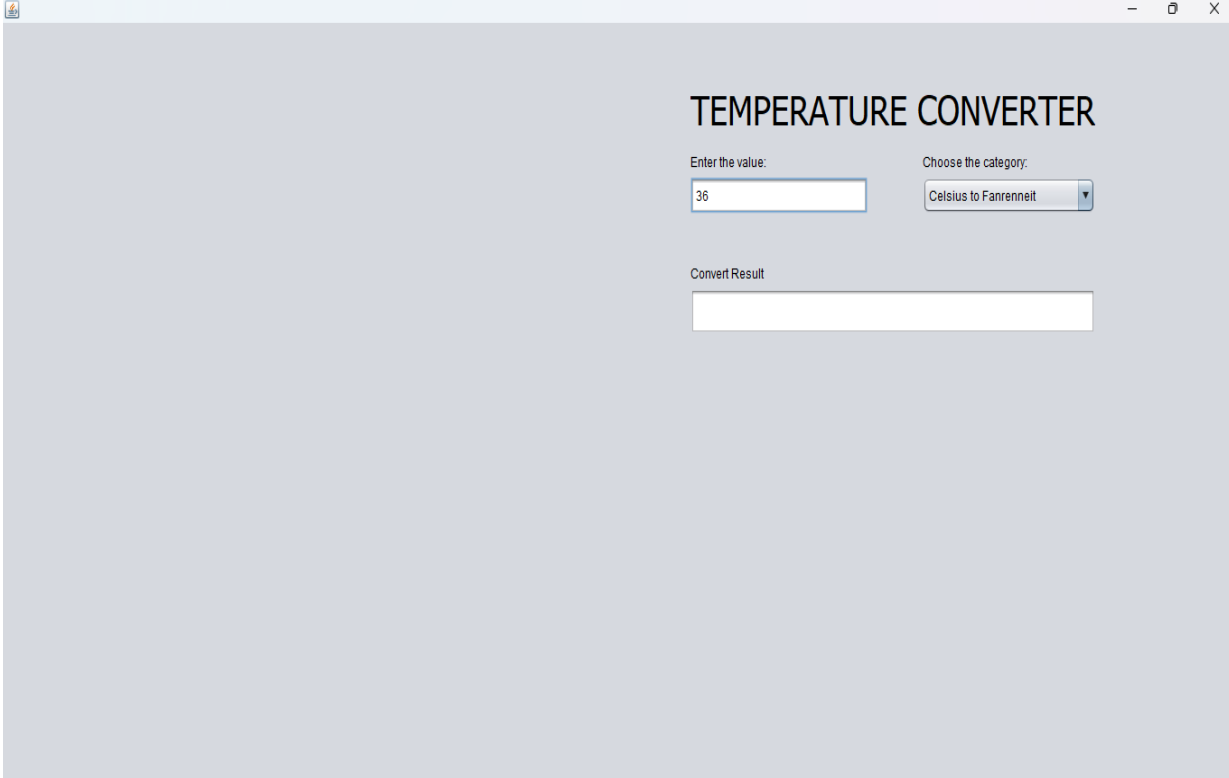


The screenshot shows a window titled "TEMPERATURE CONVERTER". Inside the window, there is a form with the following elements:

- A label "Enter the value:" followed by a text input field.
- A label "Choose the category:" followed by a dropdown menu currently showing "Celsius to Fahrenheit".
- A label "Convert Result" followed by a text input field.

## 2. User Input:

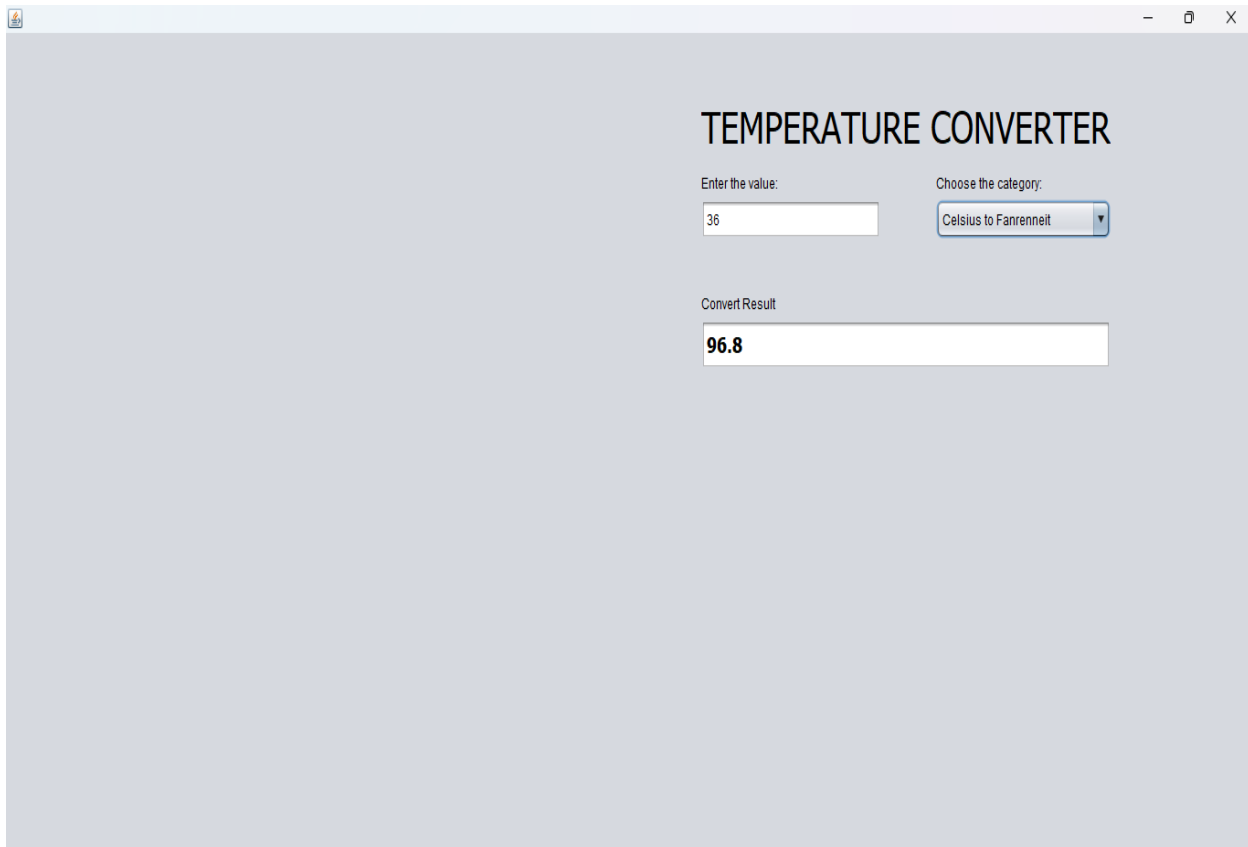
You need to select which conversation you want from Choose the category box. Here you have option to select all the possible conversation between Celcius, Fahrenheit and Kelvin



The screenshot shows a web browser window with a light gray background. The title of the window is "TEMPERATURE CONVERTER". Below the title, there are two input fields. The first is labeled "Enter the value:" and contains the number "36". The second is labeled "Choose the category:" and is a dropdown menu with "Celsius to Fahrenheit" selected. Below these fields, there is a label "Convert Result" followed by a large, empty white rectangular box for the output.

### **3. User Output:**

The convert result will be shown in Convert result box



The screenshot shows a Java Swing window titled "TEMPERATURE CONVERTER". Inside the window, there are two input fields at the top: "Enter the value:" with a text box containing "36", and "Choose the category:" with a dropdown menu showing "Celsius to Fahrenheit". Below these, there is a label "Convert Result" and a text box displaying "96.8". The window has a standard Mac OS X title bar with minimize, maximize, and close buttons.

## **Dependencies**

NetBeans IDE 8.2: NetBeans IDE lets you quickly and easily develop Java desktop. For built this project we use Java language and Java Built in Packages. After Install all packages the project will run successfully.

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