

This script creates a graphical interface to convert temperature from Fahrenheit to Celsius using the Tkinter library. Here's a detailed explanation of the code:

We started by importing the tkinter modules to the code, the ttk import is used to have a better graphic design.

```
import tkinter as tk
from tkinter import ttk
from tkinter import messagebox
```

Then we created the main window and configured the columns in case the user modify the size of the window.

```
fenetre = tk.Tk()
fenetre.title("Convertisseur")

fenetre.columnconfigure(0, weight=1)
fenetre.columnconfigure(1, weight=3)
```

After this we decided to use a label for entering the temperature in fahrenheit. We also put in this script an entry widget where the user can enter the temperature he wants to convert.

```
label = ttk.Label(fenetre, text="Entrer la temperature en Farenheit :")
label.grid(column=0, row=0, sticky=tk.E, padx=5 , pady= 5)

entry = ttk.Entry(fenetre)
entry.grid(column=1, row=0, sticky=tk.E, padx=5 , pady= 5)
```

There we have the conversion function where we specify that the entry in a float and we proceed to show the result of the calculation by using a messagebox that we imported at the beginning of the code.

```
def convertir():
    temperature= entry.get()
    calcul= (float(temperature) - 32)* 5/9
    Resultat= f"Voici la conversion en degrés Celsius {calcul} °C"
    messagebox.showinfo("Température en Celsius",Resultat)
```

We created a button that calls the conversion function.

```
bouton = ttk.Button(fenetre, text="Convertir", command=convertir)
bouton.grid(column=1, row=1, sticky=tk.E , padx=5,pady=5)
```

At the end we started the Tkinter main loop.

```
fenetre.mainloop()
```

