

Lab – Temperature Table

Learning Goals

1. Develop your ability to write text files in Emacs, compile them with gcc, and run them within Cygwin.
2. Develop your ability to write programs using for loops, functions, and define statements in C.

The Task

Yes, we have already written this program in Python and Java. Let's go for one more!

Write a C program that generates a Fahrenheit to Celsius conversion table. The program should go from freezing to boiling, counting by 10's.

Specific Requirements:

- 1) Freezing and boiling must be specified using #define statements.
- 2) The calculation of the conversion from Fahrenheit to Celsius must be implemented within a function, perhaps named f_to_c, but the name is up to you.
- 3) The columns must right align.

Output

Fahrenheit	Celsius
32	0.0
42	5.6
52	11.1
62	16.7
72	22.2
82	27.8
92	33.3
102	38.9
112	44.4
122	50.0
132	55.6
142	61.1
152	66.7
162	72.2
172	77.8
182	83.3
192	88.9
202	94.4
212	100.0