Homework #1: Fahrenheit and Celsius Degrees Converter

- Water freezes at 0 degrees Celsius, which are 32 degrees Fahrenheit, and boils at 100 degrees Celsius, which are 212 degrees Fahrenheit. Find the general formulae for converting Fahrenheit degrees to Celsius degrees and vice versa.

- Write a program, called *converter.c*, which asks for a temperature in Fahrenheit degrees, converts it to Celsius degrees and prints the result, and then performs the same operations in the opposite direction (from Celsius to Fahrenheit).

- Submit the code of the program with an example of an input and an output. If, for example, the file *converter.in* contains two lines with one number in each, then the command
  % a.out < *converter.in* > *converter.out*
  runs the program on this input and redirects the output to the file *converter.out* .

- In order to submit the homework send the files by e-mail, using **pine**, to the grader:
  winebra@post.tau.ac.il
  The subject must be "**compphys ex1**". Attach the three files converter.c, converter.in and converter.out .

- You have one week to complete the homework and it must be submitted before the next exercise.

Good luck