

MCS 260 Project One : converting units of temperature
due Friday 14 September at 1PM

The goal of this project is to write a Python program to convert units of temperature.

Units commonly used are Celsius, Fahrenheit and Kelvin. To convert c degrees of Celsius into f degrees of Fahrenheit, use $f = \frac{9}{5}c + 32$. The relation between c degrees Celsius and k degrees Kelvin is $k = c + 273$.

The program should ask the user to enter a number. After reading this number, the program will compute all possible conversions for the three units.

When the program is saved in the file `convtemp.py`, then a session (using the `$` as symbol for the command prompt) might go as follows:

```
$ python convtemp.py
Welcome to the temperature converter
Give a number : 23.45
23.45 Celsius is 74.21 Fahrenheit and 296.45 Kelvin
23.45 Fahrenheit is -4.75 Celsius and 268.25 Kelvin
23.45 Kelvin is -249.55 Celsius and -417.19 Fahrenheit
$
```

Some important points:

1. You may assume the user always types in a number, i.e.: the input is correct.
2. To print floats, use the formatting code `%.2f` as first operand in the `%` operator.
3. The first line of your Python program must be

```
# MCS 260 Project One by <Author>
```

where you replace the `<Author>` by your name.

4. Email your solution to the project to jan@math.uic.edu before 1PM on Friday 14 September so the date of the email is proof of an on time submission. As a backup, bring also a printed version of your solution to class.

If you have questions or difficulties with the project, feel free to come to my office for help.