
TEMPERATURE CONVERTER

PURPOSE

In this exercise, user is prompted for the current temperature in Celsius, which is then read, converted to Fahrenheit, and printed back out to the user.

OBJECTIVES

After completing this exercise, you should be able to:

- Read data from the console
- Convert data from one type to another
- Perform simple operations on variables
- Print out variable values to the console

PROCEDURE

PREPARE SUBMISSION FILE

1. Create a copy of the submission template called COMP6060**INIT**Lab3.docx where **INIT** is replaced with your own initials. So if your name is John Smith, the document will be called COMP6060**JS**Lab3.docx

PREPARE PYTHON FILE

1. Create a Python file in the COMP-6060 workspace called COMP6060**INIT**Lab3-1.py where **INIT** is replaced with your own initials. So if your name is John Smith, the document will be called COMP6060**JS**Lab3-1.py
2. Print out the following to the console, replacing NAME with your name:
`Welcome to NAME's temperature converter!`

PROMPT USER FOR TEMPERATURE

1. Prompt the user for the temperature using the following sentence:
`Please enter a temperature value in Celsius:`
2. Store the value in a variable called `tempCelsiusStr`
3. Convert `tempCelsiusStr` to a float type, and store in a new variable called `tempCelsius`

CONVERT TO FAHRENHEIT

1. Convert the `tempCelsius` value to Fahrenheit by using the following formula:
$$^{\circ}\text{F} = (^{\circ}\text{C} \times 9/5) + 32$$
2. Store the resulting Fahrenheit value in a variable called `tempFahrenheit`

PRINT RESULTS

1. Use a formatted string literal to create a string with the following format, and store it in a variable called `resultStr`:
`59.9 Celsius = 139.82 Fahrenheit`
2. Print `resultStr` to the console
3. Print the following string:
`Thanks for using the Temperature Converter program!`

```
PS C:\Users\lynnk\source\repos\COMP-6060> & C:/Users/lynnk/AppData/Local/Programs/Python/Python311/python.exe "c:/Users/lynnk/source/repos/COMP-6060/Lab 3/Lab 3.py"
Please enter a temperature value in Celsius: 59.9
59.9 Celsius = 139.82 Fahrenheit
Thanks for using the Temperature Converter program!
```

SUBMISSION

1. Copy your code, and paste it in the submission file
2. Show results to Instructor

Student Name: _____

Instructor: _____

Date: _____