



Lab 3 – Operators

Part 1: Write a Python program that produces the following outputs:

100 times 2.71828 = 271.828

100 divided by 2.71828 = 36.787968862663156

2.71828 raised to the power of 3.14159 to 6 decimals is 23.140582

100 plus 200 THEN multiplied by 2.71828 is 815.484

100 plus 200 THEN divided by 2.71828 plus 3.14159 is 51.1956749893769

100 divided by 2.71828 plus 200 divided by 3.14159 is 100.44999987243847

Is 100 less than 200? True

Is 100 greater than 2.71828 OR 3.14159 equal to 200? True

Is 100 cubed greater than 200 squared? True

Is true greater than false? True

The letter "f" in "abcdef" ? True

The letter "K" is not in "abcdef" ? True

100 equals 100.0 ? True

100 is the same object as 100.0 ? False

Use the following variable declarations if you like:

```
an_int = 100
another_int = 200
a_float = 2.71828
another_float = 3.14159
num1 = 100
num2 = 100.0
```

Part 2: Write a Python program that converts Celsius to Fahrenheit by using the following formula:

$$\text{Faren} = ((9 * \text{Cels}) / 5) + 32$$

Prompt the user for a Celsius temperature. Remember that *user input is returned as a character string and must be converted!*

The program may be done in *two lines*