

- Write a Python program to convert temperatures to and from celsius, fahrenheit.

$$celsius = \frac{5}{9}(fahrenheit - 32)$$

$$fahrenheit = \frac{9}{5}celsius + 32$$

- Hint: This outline is an almost-complete solution. You only have to replace each ellipsis by an expression.

In [ ]:

```
temperature = input("Enter the temperature you want to convert: (e.g. 45C, 103F,...")
unit = temperature[-1]
degree = int(temperature[:-1])

if unit.upper() == "C":
    result = ...
    out_unit = "Fahrenheit"
elif unit.upper() == "F":
    result = ...
    out_unit = "Celsius"
else:
    print("Input proper convention.")
    quit()
print(f"The temperature in {out_unit} is {result} degrees.")
```

In [ ]:

```
input: 45C
Expected output:
    The temperature in Fahrenheit is 113 degrees.
input: 100F
Expected output:
    The temperature in Celsius is 38 degrees.
```

