

- 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(...)
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(...)
```

```
In [ ]: Expected result:

Enter the temperature you want to convert: (e.g. 45C, 103F,...) 32C
The temperature 32C in Fahrenheit is 90F.

Enter the temperature you want to convert: (e.g. 45C, 103F,...) 100F
The temperature 100F in Celsius is 38C.
```

```
In [ ]:
```

