

# Homework for Common Programming Concepts

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## How to convert temperature from Fahrenheit to Celsius.

To convert a temperature from Fahrenheit to Celsius, you can use the following formula:

1. Start with the temperature in Fahrenheit.
2. Subtract 32 from the Fahrenheit temperature.
3. Multiply the result by  $5/9$ .
4. The resulting value is the temperature in Celsius.

For example, let's convert 75 degrees Fahrenheit to Celsius:

1. Start with 75 degrees Fahrenheit.
2. Subtract 32:  $75 - 32 = 43$ .
3. Multiply by  $5/9$ :  $43 * 5/9 = 23.89$ .
4. Therefore, 75 degrees Fahrenheit is approximately equal to 23.89 degrees Celsius.

## Implement a Rust program that converts temperature from Fahrenheit to Celsius.

```
fn main() {  
    let degrees_fahrenheit = 32.0;  
}
```

The program should contain a variable named `degrees_fahrenheit` that is a `f32`. Then write a function named `fahrenheit_to_celsius` which takes a variable named `degrees` that is a `f32`, and returns `f32`. This function should convert the degrees in fahrenheit to celsius. Here's a table of the kind of values your program should return:

Fahrenheit	Celsius
-40	-40
-4	-20
32	0
50	10
77	25
86	30
104	40