Solution Review: Temperature Conversion

This lesson discusses the solution to the challenge given in the previous lesson.

```
package main
                                                                                     中平
import (
        "fmt"
// aliasing type
type Celsius float32
type Fahrenheit float32
// Function to convert celsius to fahrenheit
func toFahrenheit(t Celsius) Fahrenheit {
        return Fahrenheit((t*9/5 )+ 32)
func main() {
    var tempCelsius Celsius = 100
        tempFahr := toFahrenheit(tempCelsius) // function call
    fmt.Printf("%f °C is equal to %f °F",tempCelsius,tempFahr)
                                                                           Celsius to Fahrenheit
```

We *aliased* the types of the temperature, i.e., <code>float32</code> to <code>Celsius</code> and <code>Fahrenheit</code>. At <code>line 7</code>, we alias the type <code>float 32</code> by giving the name <code>Celsius</code>. We need another type called <code>Fahrenheit</code>, so we alias the type <code>float32</code> again at <code>line 8</code>. Now, we have to write a function that does the conversion from Celsius to Fahrenheit.

Look at the function header at **line 11**: func toFahrenheit(t Celsius)

Fahrenheit. toFahrenheit is the function *identifier*. Parameter t with type

Celsius is passed, and the return type of function is Fahrenheit. Inside the function, a one-line implementation is given. The simple formula is applied, and then the result is type-casted to Fahrenheit before returning as

Fahrenheit((t*9/5)+32).

In the main function, we declare a variable tempCelsius of type Celsius at line 16. Next at line 18, we call the function toFahrenheit, and send tempCelsius as the parameter to it and store the result in tempFahr a variable of Fahrenheit type. Finally, at line 19, we print the temperature to view the result.

That's it about the solution. In the next lesson, you'll study strings, a nonelementary yet an important datatype of Go.