Worksheet 10 - functions

Monday, October 7, 2024

DS 002R - Jo Hardin

Your Name:	
Names of people you worked with:	
Have your academic interests changed since you entered college? In what way?	

Task:

Write a function for converting temperatures that takes as input a numeric value and a unit (either "C" for Celsius or "F" for Fahrenheit). The function should convert the temperature from one unit to the other based on the following formulas:

- To convert Celsius to Fahrenheit: (Celsius * 9/5) + 32
- To convert Fahrenheit to Celsius: (Fahrenheit 32) * 5/9

Solution:

```
temp_conv <- function(x, orig_unit){
   if(orig_unit == "F"){
        (x - 32) * 5/9
   } else if (orig_unit == "C"){
        (x * 9/5) + 32
   }
}

temp_conv(x = 32, orig_unit = "F")

[1] 0

temp_conv(x = 0, orig_unit = "C")

[1] 32

temp_conv(x = 212, orig_unit = "F")

[1] 100

temp_conv(x = 100, orig_unit = "C")</pre>
```

[1] 212