

Worksheet 9 - functions

Monday, October 6, 2025

DS 002R - Jo Hardin

Your Name: _____

Names of people you worked with: _____

What are your thoughts on “The Life of a Showgirl”?

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 single function should convert the temperature from one unit to the other based on the following formulas:

- To convert Celsius to Fahrenheit: $(\text{Celsius} * 9/5) + 32$
- To convert Fahrenheit to Celsius: $(\text{Fahrenheit} - 32) * 5/9$

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")
```

[1] 212