## **Homework: Loops and Functions**

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## **Notes**

```
library(tidyverse)
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr 1.1.4
                    v readr
                                 2.1.5
v forcats 1.0.0
                                 1.5.1
                     v stringr
v ggplot2 3.5.1
                   v tibble
                                 3.2.1
v lubridate 1.9.4
                  v tidyr
                                 1.3.1
v purrr
           1.0.4
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag() masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become
C_to_F <- function(celsius_temp){</pre>
  fahrenheit <- (9*celsius_temp/5 + 32)</pre>
 return(fahrenheit)
}
## As a for loop
loop_df <- data.frame(Celsius = numeric(), Fahrenheit = numeric())</pre>
for (i in -30:100){
 loop_df <- rbind(loop_df, data.frame(Celsius = i, Fahrenheit = C_to_F(i)))</pre>
}
## One liner
```

```
Celsius Fahrenheit
     -30
              -22.0
1
              -20.2
2
     -29
3
     -28
              -18.4
4
     -27
              -16.6
5
     -26
              -14.8
     -25
              -13.0
```

## head(line\_df)

```
# A tibble: 6 x 2
 Celsius Fahrenheit
              <dbl>
   <int>
1
     -30
              -22
2
     -29
              -20.2
3
     -28
              -18.4
4
     -27
             -16.6
5
     -26
             -14.8
     -25
              -13
```