Classwork 1\_Samanta

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library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.1 ──

## ✓ ggplot2 3.3.5 ✓ purrr 0.3.4  
## ✓ tibble 3.1.6 ✓ dplyr 1.0.7  
## ✓ tidyr 1.1.4 ✓ stringr 1.4.0  
## ✓ readr 2.1.1 ✓ forcats 0.5.1

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(nycflights13)  
library(lubridate) # new package

##   
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':  
##   
## date, intersect, setdiff, union

library(dplyr)

1. Use and show R code to extract the month from the following datetime designation; datetime2 <- ymd\_hms(“2021-11-13 10:05:31”) datetime2

datetime2 <- ymd\_hms("2021-11-13 10:05:31")  
datetime2

## [1] "2021-11-13 10:05:31 UTC"

month(datetime2, label=TRUE)

## [1] Nov  
## 12 Levels: Jan < Feb < Mar < Apr < May < Jun < Jul < Aug < Sep < ... < Dec

1. Use and show R code to extract the day of the week from the following datetime designation; datetime2 <- ymd\_hms(“2021-11-13 10:05:31”) datetime2

datetime2 <- ymd\_hms("2021-11-13 10:05:31")  
datetime2

## [1] "2021-11-13 10:05:31 UTC"

wday(datetime2,label=TRUE)

## [1] Sat  
## Levels: Sun < Mon < Tue < Wed < Thu < Fri < Sat

1. Use and show R code to change the month to 8, and the hour to 5 for the following datetime designation datetime2 <- ymd\_hms(“2021-11-13 10:05:31”) datetime2

datetime2 <- ymd\_hms("2021-11-13 10:05:31")  
datetime2

## [1] "2021-11-13 10:05:31 UTC"

update(datetime2, month=8, hour=5)

## [1] "2021-08-13 05:05:31 UTC"

1. Use and show R code to change 6 hours to seconds.

dhours(6)

## [1] "21600s (~6 hours)"

1. Use and show R code to change 4 days to seconds.

ddays(4)

## [1] "345600s (~4 days)"

1. Use and show R code to add 7years to 30 days.

years(7)+days(30)

## [1] "7y 0m 30d 0H 0M 0S"

1. Use and show R code to determine how many weeks there are from today’s date to a year from now.

next\_year=today()+years(1)  
next\_year

## [1] "2023-01-12"

(today() %--% next\_year)%/%weeks(1)

## [1] 52

1. Use and show R code to determine how many days there are between today’s date and June 28, 2022.

(today() %--% ("2022-06-28"))%/%days(1)

## [1] 167