Lab1

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Table of Contents

## Question 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)

## [1] 11

## Question 2

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)

## [1] 7

## Question 3

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"

datetime2

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

## Question 4

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

dhours(6)

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

## Question 5

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

ddays(4)

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

## Question 6

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

dyears(7) + ddays(30)

## [1] "223495200s (~7.08 years)"

## Question 7

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

## [1] 52.14286

## Question 8

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

jun\_28\_day <- ymd("2022-06-28")  
  
(today() %--% jun\_28\_day)/days(1)

## [1] -205