Lab_11

izd3

Use only commands & functions that are shown in the indicated chapter or prior chapters.

Problem #01 - Chapter 40 Exercise #09

```
# Show your work here
library(stringr)
```

```
## Warning: package 'stringr' was built under R version 4.2.3
```

```
len.The<-str_subset(sentences,pattern = "The")
length(len.The)
```

```
## [1] 277
```

```
length(str_subset(sentences,pattern = "(the)+"))
```

```
## [1] 408
```

```
length(str_subset(sentences,pattern = "(ed\\.)$"))
```

```
## [1] 16
```

Problem #02 - Chapter 41 Exercise #01AC

```
# Show your work
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.2.3
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

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

```
groups001.tib|>
  group_by(mn)|>
  summarise(
    junkmean=mean(junk),
    junksd=sd(junk)
  )
```

```
## # A tibble: 3 x 3
##      mn junkmean junksd
##   <dbl>    <dbl>  <dbl>
## 1    -1   -1.27    1.57
## 2     0    0.571   1.94
## 3     1    1.40    2.73
```

```
groups001.tib|>
  group_by(mn,stan)|>
  summarise(
    junkmean=mean(junk),
    junksd=sd(junk)
  )
```

```
## `summarise()` has grouped output by 'mn'. You can override using the `.groups`
## argument.
```

```
## # A tibble: 6 x 4
## # Groups:   mn [3]
##      mn  stan junkmean junksd
##   <dbl> <dbl>    <dbl>  <dbl>
## 1    -1     1  -0.885    1.00
## 2    -1     3  -1.66     1.97
## 3     0     1   0.0384   1.27
## 4     0     3   1.10     2.39
## 5     1     1   1.21     1.69
## 6     1     3   1.59     3.57
```

Problem #03 - Chapter 42 Exercise #01AB

```
# Show your work here
weight.check<-ChickWeight.tib|>
  filter(
    weight>300
  )
weight.check
```

```
## # A tibble: 14 x 4
##    weight  Time Chick Diet
##     <dbl> <dbl> <ord> <fct>
##  1    305    21 7     1
##  2    307    18 21    2
##  3    318    20 21    2
##  4    331    21 21    2
##  5    309    21 29    2
##  6    305    21 32    3
##  7    327    20 34    3
##  8    341    21 34    3
##  9    332    18 35    3
## 10    361    20 35    3
## 11    373    21 35    3
## 12    321    21 40    3
## 13    303    20 48    4
## 14    322    21 48    4
```

```
nrow(weight.check)
```

```
## [1] 14
```

```
carb.check<-Formaldehyde.tib|>
  filter(
    carb==0.5
  )

carb.check
```

```
## # A tibble: 1 x 2
##    carb optden
##   <dbl>  <dbl>
## 1   0.5  0.446
```

```
nrow(carb.check)
```

```
## [1] 1
```

Problem #04 - Chapter 43 Exercise #01A

```
# Show your work here

ChickWeight.tib|>
  select(2)
```

```
## # A tibble: 578 x 1
##     Time
##    <dbl>
##  1     0
##  2     2
##  3     4
##  4     6
##  5     8
##  6    10
##  7    12
##  8    14
##  9    16
## 10    18
## # i 568 more rows
```