Tidyverse Programming

```
#Requiring libraries
library(tidyverse)
```

```
Warning: package 'ggplot2' was built under R version 4.3.3
```

```
Warning: package 'purrr' was built under R version 4.3.3
```

```
Warning: package 'lubridate' was built under R version 4.3.3
```

```
-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v dplyr     1.1.4     v readr     2.1.5
v forcats   1.0.0     v stringr   1.5.1
v ggplot2   3.5.2     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 (<http://conflicted.r-lib.org/>) to force all conflicts to beco
```

```
library(palmerpenguins)
```

```
Warning: package 'palmerpenguins' was built under R version 4.3.3
```

Task One: Reading in the data

Question One: Reading in `data.txt` file

```
?read_csv
```

CSV stands for Comma Separated Values. The data contained in the file data.txt are not comma delimited (they are semicolon delimited), so therefore we cannot use the function read_csv to read in this data file.

```
data <- read_delim("data/data.txt", #name and path of the data file
                   delim = "; ", #setting "; " as the delimiter
                   col_types = "ddd" #assigning all columns as double
                   )
data #displaying the data
```

```
# A tibble: 2 x 3
      x     y     z
  <dbl> <dbl> <dbl>
1     1     2     3
2     5     3     8
```

Question Two: Reading in `data2.txt` file

```
data2 <- read_delim("data/data2.txt", #name and path of the data file
                   delim = "6", #setting "6" as the delimiter
                   col_types = "fdc") #assigning columns as x=factor, y=double, z=character
data2 #displaying the data
```

```
# A tibble: 3 x 3
  x         y z
  <fct> <dbl> <chr>
1 1         2 3
2 5         3 8
3 7         4 2
```

Task Two