Assignment2

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#Setup

```r
#Load the required packages
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     v stringr   1.5.1
## v ggplot2   3.5.1     v tibble    3.2.1
## v lubridate 1.9.3     v tidyr     1.3.1
## v purrr     1.0.2
## -- 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 become errors
```

```r
library(inspectdf)
library(caret)
```

```
## Loading required package: lattice
##
## Attaching package: 'caret'
##
## The following object is masked from 'package:purrr':
##
##     lift
```

```r
library(moments)
library(tidymodels)
```

```
## -- Attaching packages ---------------------------------- tidymodels 1.2.0 --
## v broom       1.0.6     v rsample      1.2.1
## v dials       1.3.0     v tune         1.2.1
## v infer       1.0.7     v workflows    1.1.4
## v modeldata   1.4.0     v workflowsets 1.1.0
## v parsnip     1.2.1     v yardstick    1.3.1
## v recipes     1.1.0
## -- Conflicts --------------------------------------- tidymodels_conflicts() --
## x scales::discard()     masks purrr::discard()
## x dplyr::filter()       masks stats::filter()
## x recipes::fixed()      masks stringr::fixed()
## x dplyr::lag()          masks stats::lag()
## x caret::lift()         masks purrr::lift()
## x yardstick::precision() masks caret::precision()
## x yardstick::recall()   masks caret::recall()
```

```
## x yardstick::sensitivity() masks caret::sensitivity()
## x yardstick::spec()        masks readr::spec()
## x yardstick::specificity() masks caret::specificity()
## x recipes::step()          masks stats::step()
## * Dig deeper into tidy modeling with R at https://www.tmwr.org
library(modelr)
```

```
##
## Attaching package: 'modelr'
##
## The following objects are masked from 'package:yardstick':
##
##     mae, mape, rmse
##
## The following object is masked from 'package:broom':
##
##     bootstrap
library(ISLR)
library(car)
```

```
## Loading required package: carData
##
## Attaching package: 'car'
##
## The following object is masked from 'package:dplyr':
##
##     recode
##
## The following object is masked from 'package:purrr':
##
##     some
```

Loading the data

```
#Here we use our ysn to identify which dataset we need to use
ysn = 1907385
x <- ysn %% 4
x
```

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

Here we get 1 from student number modulo 4, then we use division_1.csv to be our data set.