Week 4 4.4 Note

1. Extra R Commands

- Histogram:
    - `freq = F`: produce a density table rather than frequency table
        - ex.

        ```
        ist(iris$Petal.Length, freq=F)
        ```

- Normal Curves:
    - `curve()`: produce a curve (normal curve)
    - Add a curve onto a histogram: `curve(add = TRUE)`
        - ex.

        ```
        hist(iris$Petal.Length, freq=F)
            curve(dnorm(x, mean = mean(iris$Petal.Length), sd =
        sd(iris$Petal.Length)), col = "lightblue", lwd = 6, add = TRUE)
        ```

    - `dnorm()`: create a standard normal curve (mean=0, sd=1)
    - `pnorm()`: Finding area under normal curve (probabilities) given a **x -** given N (mean, SD^2)
    - `qnorm()`: Find x given an **area -** given N (mean, SD^2)