R Exercises Session 8

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1. Create a level 2 header below in Markdown with the name “Answer 1”.

# Header 1

## Answer 1

1. Add an unordered Markdown list of your favorite food dishes and add their ingredients as sub-items in the list. You should enter at least two dishes with two ingredients each.

\*list 1

* Item 1
* *sub-item 1a* sub-item 1b \*subitem 1c
* Item 2
* *sub-item 2a* sub-item 2b \*sub-item 2c

-Favorite food dishes

* Seafood Pasta -Ingredients: -lobster -cream

-Fried Chicken -Ingredients: -buttermilk -flour

1. Add an R code chunk below. Show the summary of the Orange dataset. Run a linear regression using the lm function to predict circumference from age and assign the result. Show the summary of the fit object that you assigned.

data ("Orange")  
summary(Orange)

## Tree age circumference   
## 3:7 Min. : 118.0 Min. : 30.0   
## 1:7 1st Qu.: 484.0 1st Qu.: 65.5   
## 5:7 Median :1004.0 Median :115.0   
## 2:7 Mean : 922.1 Mean :115.9   
## 4:7 3rd Qu.:1372.0 3rd Qu.:161.5   
## Max. :1582.0 Max. :214.0

?lm  
data("Orange")  
orangefit <- lm(circumference ~age, data = Orange)  
class(orangefit)

## [1] "lm"

?predict.lm  
predict(orangefit, newdata = data.frame(age = 500))

## 1   
## 70.78481

summary(orangefit)

##   
## Call:  
## lm(formula = circumference ~ age, data = Orange)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -46.310 -14.946 -0.076 19.697 45.111   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 17.399650 8.622660 2.018 0.0518 .   
## age 0.106770 0.008277 12.900 1.93e-14 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 23.74 on 33 degrees of freedom  
## Multiple R-squared: 0.8345, Adjusted R-squared: 0.8295   
## F-statistic: 166.4 on 1 and 33 DF, p-value: 1.931e-14

1. Add a RMarkdown format link below to your favorite R reference website.

[<https://www.statmethods.net>][Statmethods]

1. Replace the author field in the yaml header with your name and then successfully knit the RMarkdown document into a Word document.
2. Follow the instructions at <https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/creating-a-pull-request-from-a-fork> to submit your assignment via GitHub to the <https://github.com/CUNYSPHCode/IntroR> repository.