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#Author: Pallavi Karan
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#Data Analysis-8050 HW-2
#Loading the dataset
rm(list = ls()) #clearing the workspace
getwd()
setwd("D:\\MATH-DA\\HW 2\\")
library(XLConnect)
my.data <- readWorksheet(loadWorkbook("SaltConc.xlsx"),sheet=1)</pre>
# 1 (a)
mean(my.data$Salt)
mean (my.data$Area)
median(my.data$Salt)
median(my.data$Area)
sd(my.data$Salt)
sd(my.data$Area)
max(my.data$Salt)
min(my.data$Salt)
max(my.data$Area)
min(my.data$Area)
summary(my.data)
# 1(B)
boxplot(my.data$Salt,my.data$Area, main="Boxplot for SaltConc",ylab="Distribution", names=c("Salt Conc","Roadway
Area"))
# 1(C)
hist(my.data$Area, main="Area Distribution", xlab="Area")
plot(my.data$Salt ~ my.data$Area , main="Scatterplot", xlab="Roadway Area",ylab="Salt Concentration")
# 1 (E)
myfunction <- function(args.dataset) {</pre>
 my.subset <- args.dataset[2:2,]</pre>
 my.sum<-sum(my.subset)</pre>
 return(my.sum)
my.sum.from.function <- myfunction(my.data)</pre>
{\tt my.sum.from.function}
# 1 (F)
t.test( x = my.data$Salt, alternative = "two.sided",
        mu = 20, conf.level = 0.90)
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