Stat123 Lab 2

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## LAB 2

#QUESTION 1 a)  
Fdata <- read.csv("FlowerData.csv")  
  
#QUESTION 1 b)  
class(Fdata)

[1] "data.frame"

#this out put of this is data.frame so it is a data frame  
  
#QUESTION 1 c)  
FlowerMatrix <- as.matrix(Fdata[c(2,3)])  
head(FlowerMatrix)

Age..days. Height..cm.  
[1,] 31 5.0  
[2,] 48 16.0  
[3,] 39 12.5  
[4,] 29 6.0  
[5,] 32 4.0  
[6,] 37 7.0

#QUESTION 1 d)  
colnames(FlowerMatrix) <- c("Age (in days)", "Height (in cm")  
  
  
#QUESTION 1 e)  
rownames(FlowerMatrix) <- Fdata$Individual  
head(FlowerMatrix)

Age (in days) Height (in cm  
a 31 5.0  
b 48 16.0  
c 39 12.5  
d 29 6.0  
e 32 4.0  
f 37 7.0

#QUESTION 2 a)  
mean(FlowerMatrix[,1])

[1] 37.42222

#QUESTION 2 b)  
mean(FlowerMatrix[,2])

[1] 11.87778

#QUESTION 2 c)  
height <- FlowerMatrix[,2]  
height[which.max(height)]

jj   
19

#QUESTION 2 d)  
age <- FlowerMatrix[,1]  
age[which.min(age)]

h   
26

#QUESTION 2 e)  
colour <- Fdata$Colour  
colour[which.max(height)]

[1] "yellow"

colour[which.min(age)]

[1] "yellow"

#QUESTION 3 a)  
Fdata[10:13,]

Individual Age..days. Height..cm. Colour  
10 j 34 8.5 purple  
11 k 38 12.0 pr  
12 l 40 18.0 yellow  
13 45 16.0 yellow

#QUESTION 3 b)  
Fdata[11,4] <- "purple"  
ind <- Fdata[,1]  
Fdata[13,1] = "m"  
Fdata[10:13,]

Individual Age..days. Height..cm. Colour  
10 j 34 8.5 purple  
11 k 38 12.0 purple  
12 l 40 18.0 yellow  
13 m 45 16.0 yellow