IT24102713

Ranathunga R M C M B

RStudio

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it24102713.R

Source on Save

```r
##Setting the directory
setwd("C:\\Users\\it24102713\\Desktop\\Lab 5")


#1
data<-read.table("Data.txt",header=TRUE,sep = ",")
fix(data)

attach(data)

names(data)<-c("X1","X2")
attach(data)
hist(X2,main= "Histogram for number of shareholders")

#2
histogram<-hist(X2,main="Histogram of number of shareholders",brasks = seq(130, 270,length = 8),right = FALSE)

?hist

#3
breaks <- round(histogram$breaks)
freq <- histogram$counts
mids <- histogram$mids

classes <- c()

for(i in 1:length(breaks)-1){
  classes[i] <- paste0("[",breaks[i], ",", breaks[i+1],")")
}

```

28:60 (Top Level)

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```
>
>
> #1
> data<-read.table("Data.txt",header=TRUE,sep = ",")
> fix(data)
>
> attach(data)
The following objects are masked from data (pos = 4):

    Company, Number_of_Shareholders.thousands.

The following objects are masked from data (pos = 6):

    Company, Number_of_Shareholders.thousands.

The following objects are masked from data (pos = 8):

    Company, Number_of_Shareholders.thousands.

The following objects are masked from data (pos = 10):

    Company, Number_of_Shareholders.thousands.
```

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breaks <- round(histogram$breaks)
freq <- histogram$counts
mids <- histogram$mids

classes <- c()

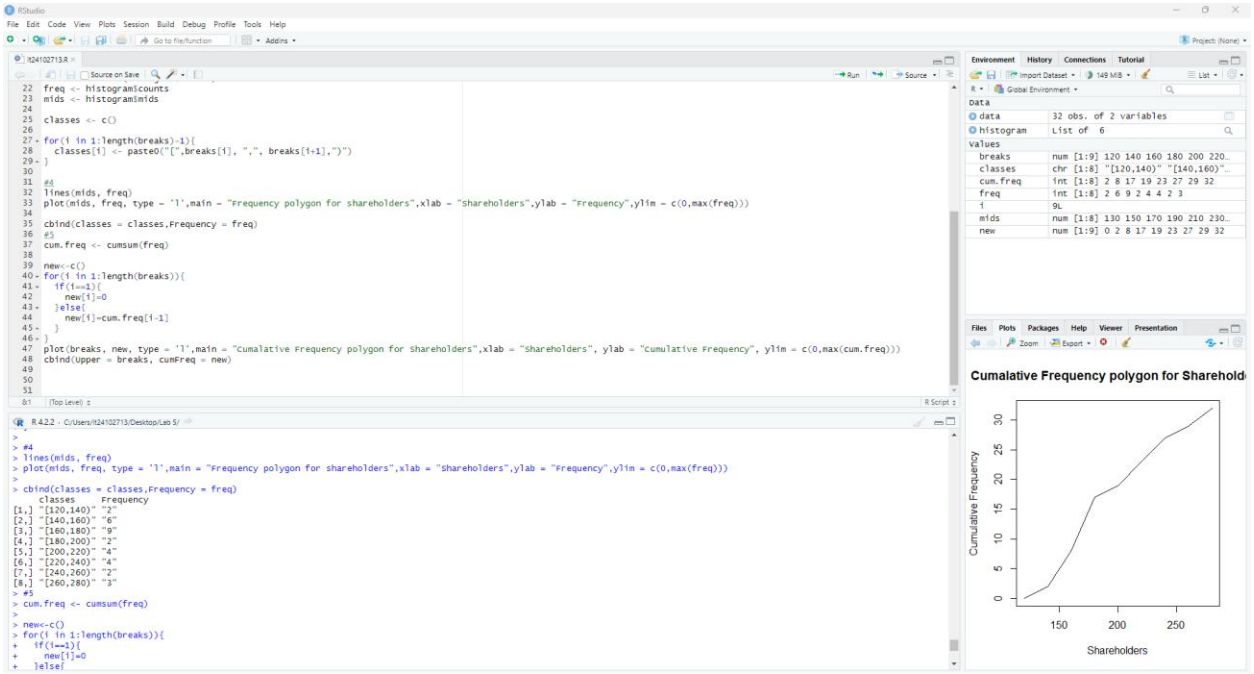
for(i in 1:length(breaks)-1){
  classes[i] <- paste0("[",breaks[i], ",", breaks[i+1],")")
}

```

10:1 (Top Level)

R 4.2.2 · C:/Users/it24102713/Desktop/Lab 5/

```
>
> #2
> histogram<-hist(X2,main="Histogram of number of shareholders",brasks = seq(130, 270,length = 8),right = FALSE)
Warning messages:
1: In plot.window(xlim, ylim, "", ...) :
  "brasks" is not a graphical parameter
2: In title(main = main, sub = sub, xlab = xlab, ylab = ylab, ...) :
  "brasks" is not a graphical parameter
3: In axis(1, ...) : "brasks" is not a graphical parameter
4: In axis(2, at = yt, ...) : "brasks" is not a graphical parameter
>
> ?hist
>
> #3
> breaks <- round(histogram$breaks)
> freq <- histogram$counts
> mids <- histogram$mids
>
> classes <- c()
>
> for(i in 1:length(breaks)-1){
+   classes[i] <- paste0("[",breaks[i], ",", breaks[i+1],")")
+ }
```


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
freq <- histogram$counts
mids <- histogram$mids
classes <- c()
for(i in 1:length(breaks)-1){
classes[i] <- paste0("[",breaks[i], ",", breaks[i+1],")")
}
#4
lines(mids, freq)
plot(mids, freq, type = 'l',main = "Frequency polygon for shareholders",xlab = "Shareholders",ylab = "Frequency",ylim = c(0,max(freq)))
cbind(classes = classes,Frequency = freq)
#5
cum.freq <- cumsum(freq)
new<-c()
for(i in 1:length(breaks)){
if(i==1){
new[i]=0
}else{
new[i]=cum.freq[i-1]
}
}
plot(breaks, new, type = 'l',main = "Cumalative Frequency polygon for Shareholders",xlab = "Shareholders", ylab = "Cumulative Frequency", ylim = c(0,max(cum.freq)))
cbind(Upper = breaks, cumFreq = new)
R 4.2.2 · C:/Users/it24102713/Desktop/Lab 5/
> #4
> lines(mids, freq)
> plot(mids, freq, type = 'l',main = "Frequency polygon for shareholders",xlab = "Shareholders",ylab = "Frequency",ylim = c(0,max(freq)))
> cbind(classes = classes,Frequency = freq)
classes Frequency
[1,] "[120,140)" "2"
[2,] "[140,160)" "6"
[3,] "[160,180)" "9"
[4,] "[180,200)" "2"
[5,] "[200,220)" "4"
[6,] "[220,240)" "4"
[7,] "[240,260)" "2"
[8,] "[260,280)" "3"
> #5
> cum.freq <- cumsum(freq)
> new<-c()
> for(i in 1:length(breaks)){
+ if(i==1){
+ new[i]=0
+ }else{
Environment History Connections Tutorial
Data
data 32 obs. of 2 variables
histogram List of 6
Values
breaks num [1:9] 120 140 160 180 200 220…
classes chr [1:8] "[120,140)" "[140,160)"…
cum.freq int [1:8] 2 8 17 19 23 27 29 32
freq int [1:8] 2 6 9 2 4 4 2 3
i 9L
mids num [1:8] 130 150 170 190 210 230…
new num [1:9] 0 2 8 17 19 23 27 29 32
Files Plots Packages Help Viewer Presentation
Cumalative Frequency polygon for Shareholde
Cumulative Frequency
0
5
10
15
20
25
30
150
200
250
Shareholders