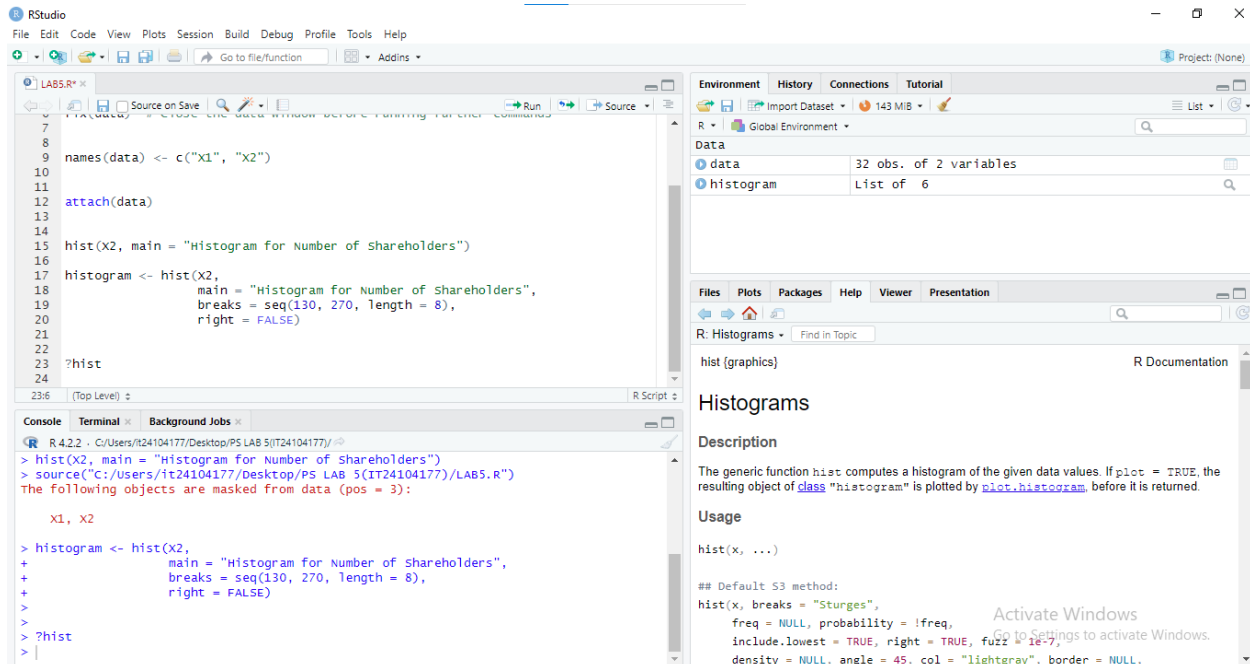
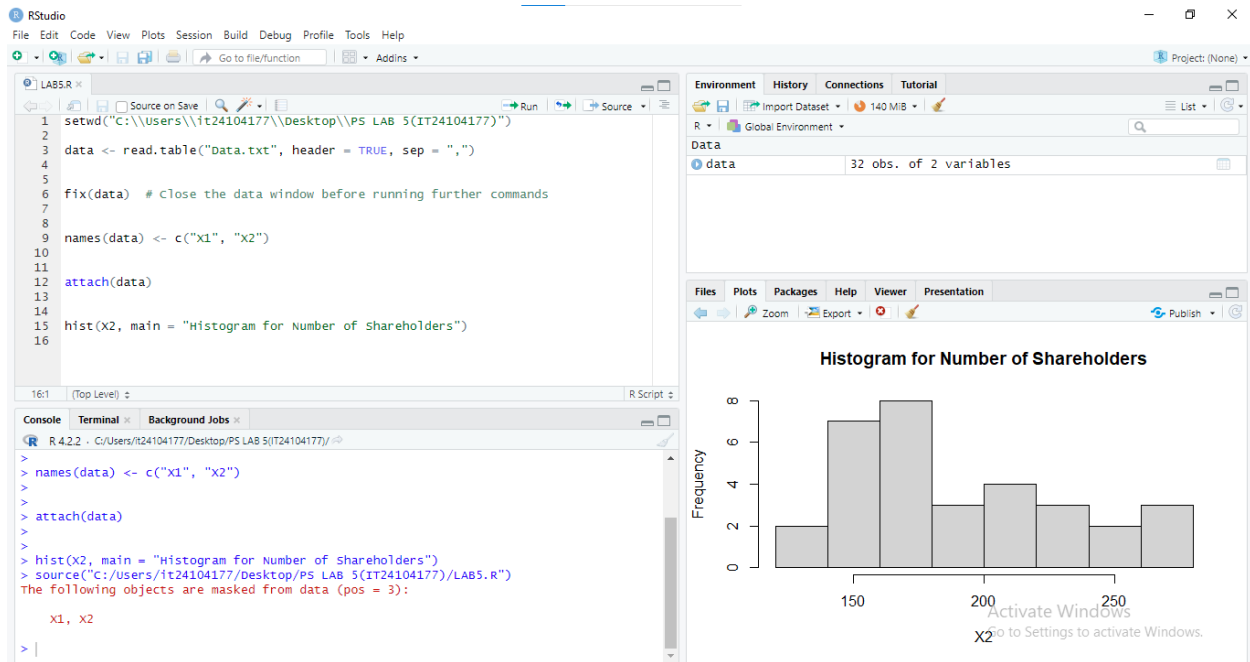


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LAB TIME EXERSICE



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RStudio

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Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

Global Environment

histogram List of 6

Values

breaks	num [1:8]	130 150 170 190 210 230 250 270
classes	chr [1:7]	"[130,150)" "[150,170)" "[170,190)" "[190,210)" "[210,230)" "[230,250)" "[250,270)"
freq	int [1:7]	4 9 4 6 3 2 4
i	7L	
mids	num [1:7]	140 160 180 200 220 240 260

Files Plots Packages Help Viewer Presentation

R: Histograms Find in Topic

Histograms

Description

The generic function `hist` computes a histogram of the given data values. If `plot = TRUE`, the resulting object of class "histogram" is plotted by `plot.histogram`, before it is returned.

Usage

```
hist(x, ...)
```

Default S3 method:

```
hist(x, breaks = "Sturges",  
     freq = NULL, probability = ifreq,  
     include.lowest = TRUE, right = TRUE, fuzz = 1e-7,  
     density = NULL, angle = 45, col = "lightgray", border = NULL,
```

Activate Windows
Go to Settings to activate Windows.

RStudio

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Zoom Export Publish

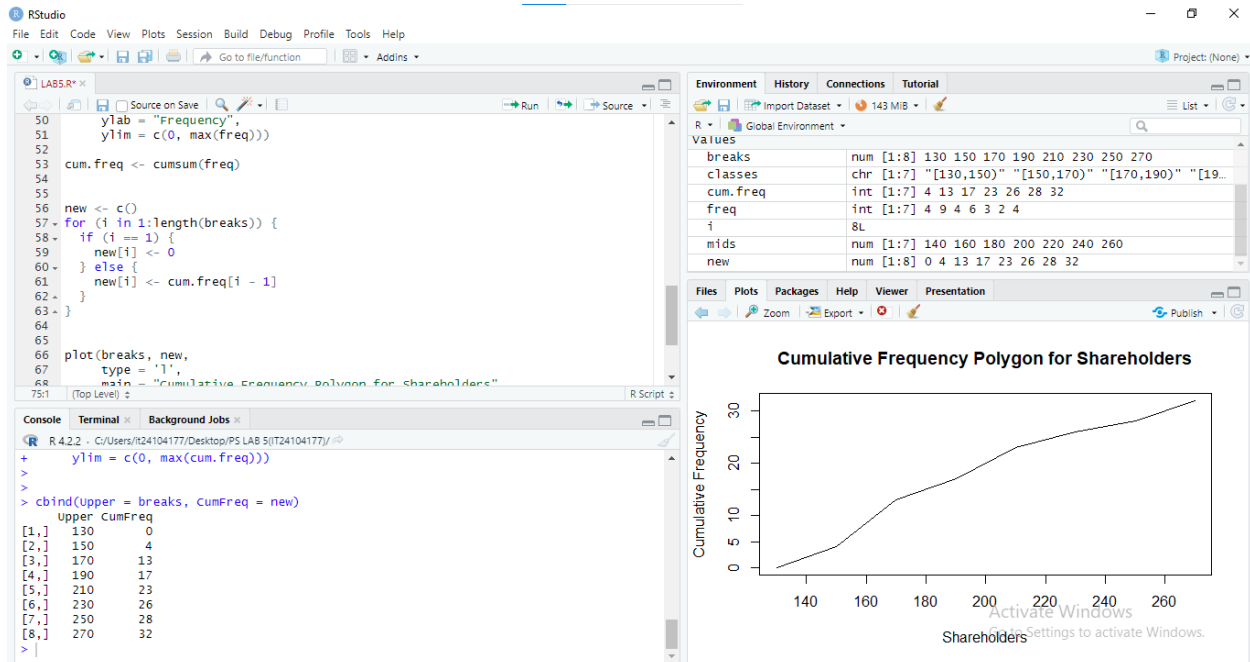
Frequency Polygon for Shareholders

Frequency

Shareholders

Activate Windows
Go to Settings to activate Windows.

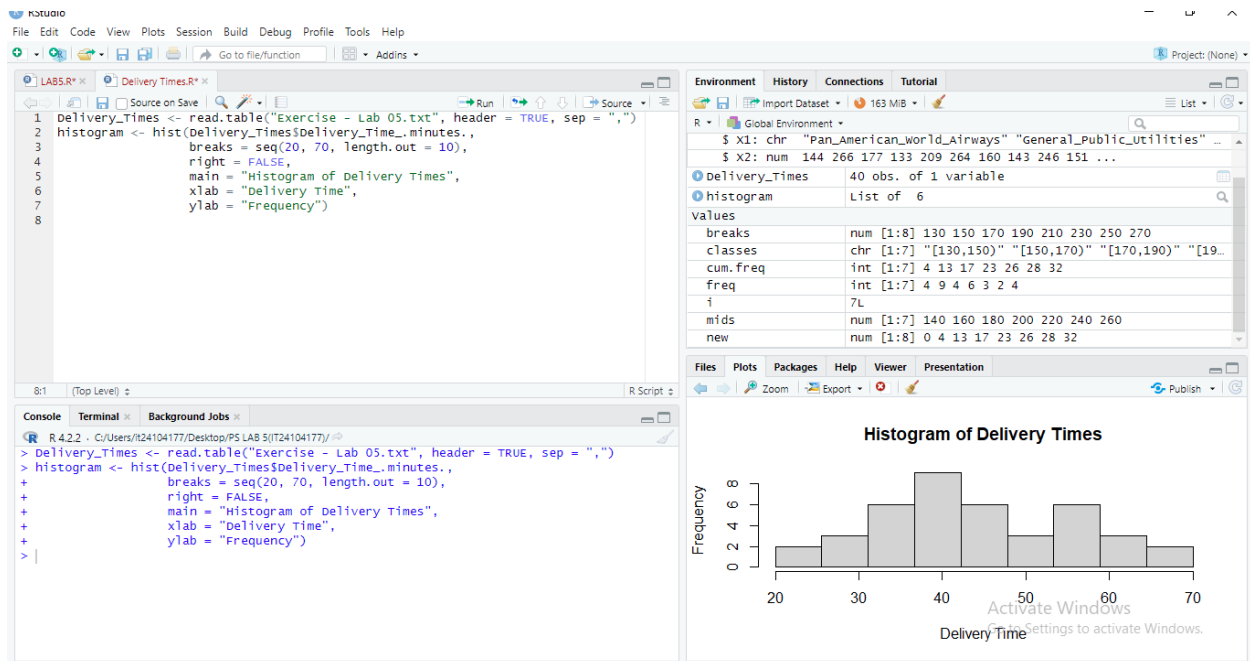
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LAB TIME EXERSICE

Q1/Q2) Import the dataset/

Draw a histogram with 9 class intervals (20–70), right-open.



Q4) Draw a cumulative frequency polygon

The screenshot shows the RStudio interface with the following components:

- Source Editor:** Contains R code for creating a histogram and a cumulative frequency polygon.
- Environment:** Displays the objects created in the global environment.
- Console:** Shows the execution of the code.

Source Editor Code:

```
1 histogram <- hist(Delivery_Times$Delivery_Time_..minutes.,
2                   breaks = seq(20, 70, length.out = 10),
3                   right = FALSE,
4                   main = "Histogram of Delivery Times",
5                   xlab = "Delivery Time",
6                   ylab = "Frequency")
7
8 breaks <- round(histogram$breaks)
9 freq <- histogram$counts
10 cum.freq <- cumsum(freq)
11 ogive_points <- c(0, cum.freq)
12
13 plot(breaks, ogive_points,
14      type = "l",
15      main = "Cumulative Frequency Polygon (ogive)",
16      xlab = "Delivery Time",
17      ylab = "Cumulative Frequency",
18      ylim = c(0, max(cum.freq)))
19
```

Environment:

Object	Class	Length	Values
data	data.frame	32 obs. of 2 variables	
\$ X1:	chr	32	"Pan_American_World_Airways" "General_Public_Utilities" ...
\$ X2:	num	32	144 266 177 133 209 264 160 143 246 151 ...
Delivery_Times	data.frame	40 obs. of 1 variable	
histogram	hist	6	
breaks	num	11	[1:10] 20 26 31 37 42 48 53 59 64 70
classes	chr	10	"[130,150)" "[150,170)" "[170,190)" "[190,210)" ...
cum.freq	int	10	[1:9] 2 5 11 20 26 29 35 38 40
freq	int	10	[1:9] 2 3 6 9 6 3 6 3 2
i	8L	1	
mids	num	10	[1:7] 140 160 180 200 220 240 260
new	num	10	[1:8] 0 4 13 17 23 26 28 32
ogive_points	num	11	[1:10] 0 2 5 11 20 26 29 35 38 40

Console:

```
R 4.2.2 - C:/Users/IT24104177/Desktop/PS LAB 5 (IT24104177)/
> breaks <- round(histogram$breaks)
> freq <- histogram$counts
> cum.freq <- cumsum(freq)
> ogive_points <- c(0, cum.freq)
>
> plot(breaks, ogive_points,
+      type = "l",
+      main = "Cumulative Frequency Polygon (ogive)",
+      xlab = "Delivery Time",
+      ylab = "Cumulative Frequency",
+      ylim = c(0, max(cum.freq)))
>
```