IT24101321

NETHMINDA R.P.H

LAB PS 05

```
setwd("C:\\Users\\it24101321\\Desktop\\New folder")
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)

colnames(Delivery_Times) <- "Delivery_Time"
head(Delivery_Times)
str(Delivery_Times)


breaks <- seq(20, 70, length.out = 10)
hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main = "Histogram


hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right = FALSE, pl
frequencies <- hist_data$counts
cum_freq <- cumsum(frequencies)
print(frequencies)
print(cum_freq)

```

3:1 (Top Level) R Script

Console Terminal Background Jobs

R 4.2.2 · C:/Users/it24101321/Desktop/New folder/

```
> setwd("C:\\Users\\it24101321\\Desktop\\New folder")
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
>
```

```
colnames(Delivery_Times) <- "Delivery_Time"
head(Delivery_Times)
str(Delivery_Times)

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hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right = FALSE, pl
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cum_freq <- cumsum(frequencies)
print(frequencies)
print(cum_freq)

```

7:1 (Top Level) R Script

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```
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> colnames(Delivery_Times) <- "Delivery_Time"
> head(Delivery_Times)
  Delivery_Time
1            34
2            54
3            47
4            29
5            39
6            61
> str(Delivery_Times)
'data.frame':   40 obs. of  1 variable:
 $ Delivery_Time: int  34 54 47 29 39 61 20 40 57 36 ...
>
```

```
breaks <- seq(20, 70, length.out = 10)
hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main = "Histogram

hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right = FALSE, pl
frequencies <- hist_data$counts
cum_freq <- cumsum(frequencies)
print(frequencies)
print(cum_freq)
```

12:1 (Top Level) R Script

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```
 breaks <- seq(20, 70, length.out = 10)
 hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main = "Histogram of De
ivery Times",xlab = "Delivery Time",ylab = "Frequency")
```

breaks	num [1:10] 20 25.6 31.1 36.7 42.2 ...
cum_freq	int [1:9] 2 5 11 20 26 29 35 38 40
frequencies	int [1:9] 2 3 6 9 6 3 6 3 2
midpoints	num [1:9] 22.8 28.3 33.9 39.4 45 ...

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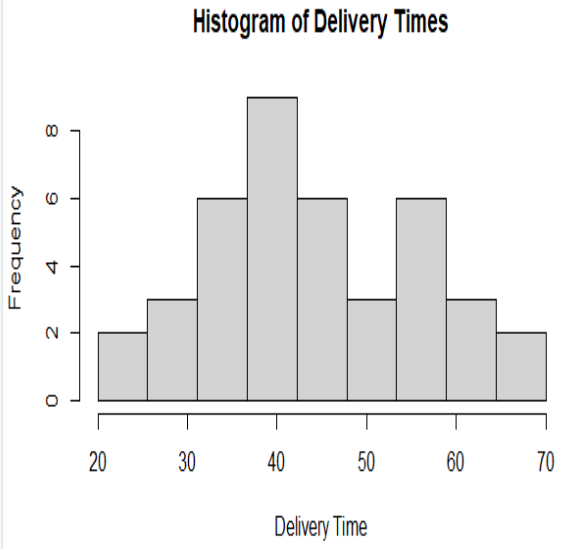

```
hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right = FALSE, pl
frequencies <- hist_data$counts
cum_freq <- cumsum(frequencies)
print(frequencies)
print(cum_freq)


midpoints <- hist_data$mids
plot(midpoints, cum_freq, type = "b",
     main = "Cumulative Frequency Polygon for Delivery Time",
     xlab = "Delivery Time (minutes)",
     ylab = "Cumulative Frequency",
```

18:1 (Top Level) R Script

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```
> hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main = "Histogram of
Delivery Times",xlab = "Delivery Time",ylab = "Frequency")
> breaks <- seq(20, 70, length.out = 10)
> hist(Delivery_Times$Delivery_Time,right = FALSE,breaks = breaks,main = "Histogram of
Delivery Times",xlab = "Delivery Time",ylab = "Frequency")
> hist_data <- hist(Delivery_Times$Delivery_Time, breaks = breaks, right = FALSE, plot
= FALSE)
> frequencies <- hist_data$counts
> cum_freq <- cumsum(frequencies)
> print(frequencies)
[1] 2 3 6 9 6 3 6 3 2
> print(cum_freq)
[1]  2  5 11 20 26 29 35 38 40
>
```

```
midpoints <- hist_data$mids
plot(midpoints, cum_freq, type = "b",
     main = "Cumulative Frequency Polygon for Delivery Time",
     xlab = "Delivery Time (minutes)",
     ylab = "Cumulative Frequency",
     pch = 16)
```

26:15 (Top Level) R Script

Console Terminal Background Jobs

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```
= FALSE)
> frequencies <- hist_data$counts
> cum_freq <- cumsum(frequencies)
> print(frequencies)
[1] 2 3 6 9 6 3 6 3 2
> print(cum_freq)
[1]  2  5 11 20 26 29 35 38 40
> midpoints <- hist_data$mids
> plot(midpoints, cum_freq, type = "b",
+      main = "Cumulative Frequency Polygon for Delivery Time",
+      xlab = "Delivery Time (minutes)",
+      ylab = "Cumulative Frequency",
+      pch = 16)
>
```

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