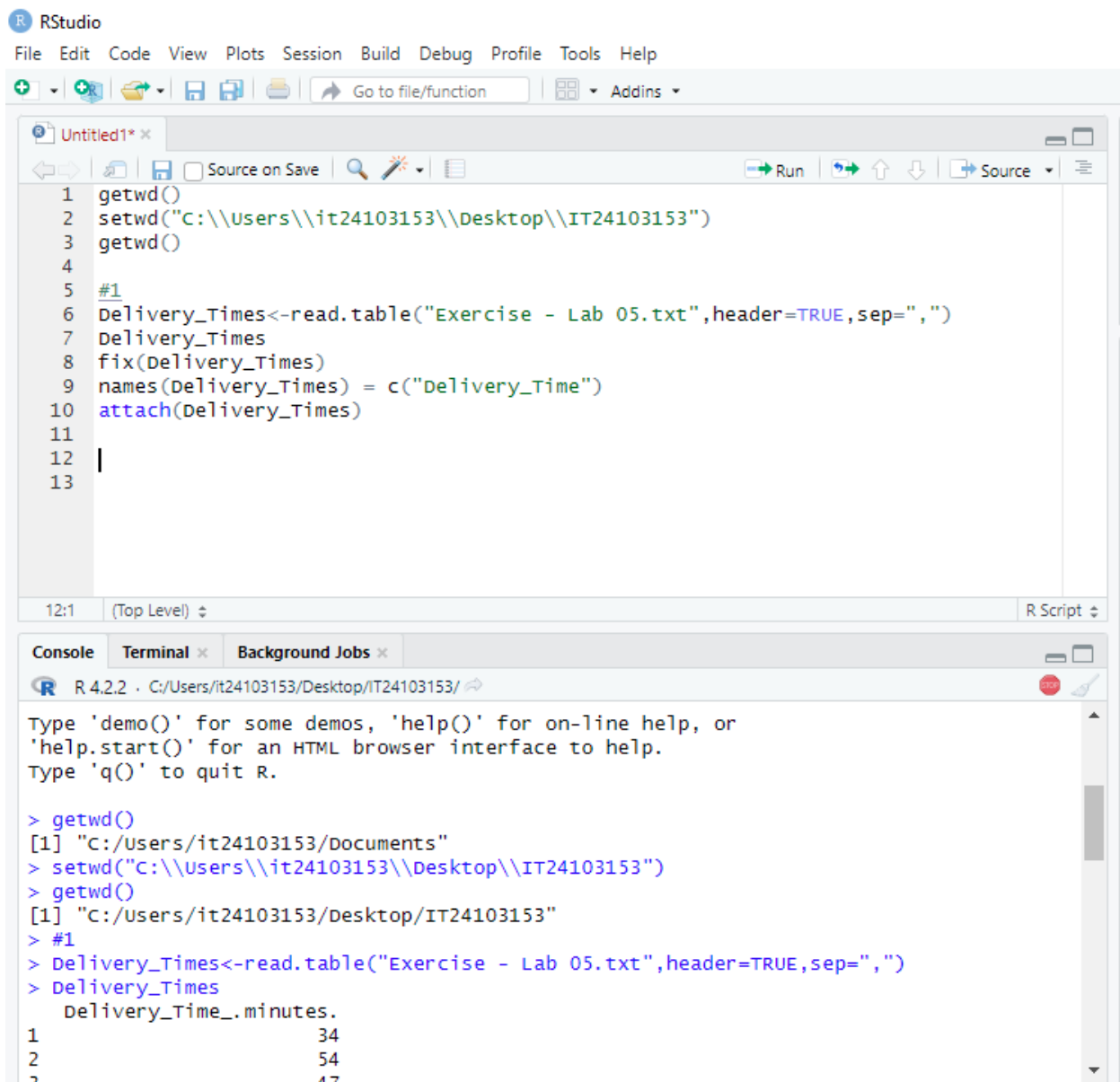


IT2120 - Probability and Statistics

Lab Sheet – 05

IT24103153

Dassanayake H.N



The screenshot shows the RStudio environment. The top menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, and Help. Below the menu is a toolbar with icons for file operations and a search bar. The main editor window, titled 'Untitled1*', contains the following R code:

```
1 getwd()
2 setwd("C:\\Users\\it24103153\\Desktop\\IT24103153")
3 getwd()
4
5 #1
6 Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE,sep=",")
7 Delivery_Times
8 fix(Delivery_Times)
9 names(Delivery_Times) = c("Delivery_Time")
10 attach(Delivery_Times)
11
12 |
13
```

The status bar at the bottom of the editor shows '12:1 (Top Level)' and 'R Script'.

Below the editor is the Console window, which displays the output of the R script. It shows the current working directory being set to 'C:/Users/it24103153/Desktop/IT24103153/' and the data being read from 'Exercise - Lab 05.txt'.

```
R 4.2.2 - C:/Users/it24103153/Desktop/IT24103153/
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> getwd()
[1] "C:/Users/it24103153/Documents"
> setwd("C:\\Users\\it24103153\\Desktop\\IT24103153")
> getwd()
[1] "C:/Users/it24103153/Desktop/IT24103153"
> #1
> Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE,sep=",")
> Delivery_Times
  Delivery_Time_.minutes.
1                    34
2                    54
3                    47
```

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Data Editor

File Edit Help

	Delivery_Time_.minutes.	var2	var3	var4	var5
1	34				
2	54				
3	47				
4	29				
5	39				
6	61				
7	20				
8	40				
9	57				
10	36				
11	38				
12	44				
13	59				
14	38				
15	40				
16	40				
17	67				
18	66				
19	55				
20	48				
21	52				
22	59				
23	35				
24	56				

12:1

Console

```

> ge
[1]
> se
[1]
> ge
[1]
> #1
> Delivery_Times<-read.table("Exercise - Lab 05.txt",header=TRUE,sep=",")
> Delivery_Times

```

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

IT24103153.R

```

1 getwd()
2 setwd("c:\\Users\\it24103153\\Desktop\\IT24103153")
3 getwd()
4 #1
5 Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
6 fix(Delivery_Times)
7 names(Delivery_Times) = c("Delivery_Time")
8 attach(Delivery_Times)
9
10 #2
11 histogram = hist(Delivery_Time,
12                  main="Histogram for deliver times",
13                  breaks=seq(20,70,length=9),right=TRUE)
14
15

```

8:23 (Top Level)

Console

```

R 4.2.2 - C:/Users/it24103153/Desktop/IT24103153/
type q() to quit R.

> getwd()
[1] "C:/Users/it24103153/Downloads"
> setwd("c:\\Users\\it24103153\\Desktop\\IT24103153")
> getwd()
[1] "C:/Users/it24103153/Desktop/IT24103153"
> #1
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> fix(Delivery_Times)
> names(Delivery_Times) = c("Delivery_Time")
> attach(Delivery_Times)
> #2
> histogram = hist(Delivery_Time,
+                  main="Histogram for deliver times",
+                  breaks=seq(20,70,length=9),right=TRUE)
+
+
>

```

Environment History Connections Tutorial

Global Environment

Data

Files Plots Packages Help Viewer Presentation

Zoom Export Publish

Histogram for deliver times

Frequency

Delivery_Time

30°C Partly sunny 5:02 PM 8/28/2025

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

IT24103153.R

```

9
10 #2
11 histogram = hist(Delivery_Time,
12                  main="Histogram for deliver times",
13                  breaks=seq(20,70,length=9),right=TRUE)
14
15 #3
16 install.packages("e1071")
17 library(e1071)
18
19 # Calculate skewness
20 skewness(Delivery_Times$Delivery_Time)
21
22
23

```

19:18 (Top Level) R Script

Console Terminal Background Jobs

R 4.2.2 C:/Users/it24103153/Desktop/IT24103153/

```

Binaries will be installed
trying URL 'https://cran.rstudio.com/bin/windows/contrib/4.2/e1071_1.7-14.zip'
Content type 'application/zip' length 664701 bytes (649 KB)
downloaded 649 KB

package 'e1071' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
c:\Users\it24103153\AppData\Local\Temp\RtmpMnxZ9F\downloaded_packages
> library(e1071)
warning message:
package 'e1071' was built under R version 4.2.3
>
> # Calculate skewness
> skewness(Delivery_Times$Delivery_Time)
[1] 0.04454399
>

```

