

PS Lab 4

IT24100356

01

The screenshot displays the RStudio interface. The script editor on the left contains the following R code:

```
1 getwd()
2 setwd("C:\\Users\\it24100356\\desktop\\IT24100356")
3
4 branch_data <- read.table("Exercise.txt", header = TRUE, sep = ",")
5 fix(branch_data)
6 attach(branch_data)
```

The console at the bottom shows the execution of these commands:

```
> getwd()
[1] "C:/Users/it24100356/Documents"
> setwd("C:\\Users\\it24100356\\Desktop\\IT24100356")
> getwd()
[1] "C:/Users/it24100356/Desktop/IT24100356"
> branch_data <- read.table("Exercise.txt", header = TRUE, sep = ",")
> fix(branch_data)
```

The Data Editor window on the right shows a table with 19 rows and 7 columns. The first four columns are labeled 'Branch', 'Sales_X1', 'Advertising_X2', and 'Years_X3'. The last three columns are labeled 'var5', 'var6', and 'var7'. The data is as follows:

	Branch	Sales_X1	Advertising_X2	Years_X3	var5	var6	var7
1	1	3.4	120	4			
2	2	4.1	150	7			
3	3	2.8	90	3			
4	4	5	200	10			
5	5	3.7	110	5			
6	6	4.5	175	6			
7	7	3	95	2			
8	8	4.9	185	9			
9	9	3.2	105	4			
10	10	2.5	80	1			
11	11	3.9	130	5			
12	12	4.2	140	7			
13	13	2.7	100	3			
14	14	3.6	125	4			
15	15	4.8	190	8			
16	16	3.3	115	5			
17	17	4	135	6			
18	18	5.1	210	12			
19	19	3.8	145	6			

02

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

Import Dataset 146 MiB

R Global Environment

Data

branch_data 30 obs. of 4 variables

Files Plots Packages Help Viewer Presentation

Folder Blank File Delete Rename

Home

Name	Size	Modified
desktop.ini	402 B	Aug 19, 2025, 1:20 PM
My Music		
My Pictures		
My Videos		

```

1 getwd()
2 setwd("C:\\Users\\it24100356\\Desktop\\IT24100356")
3
4 branch_data <- read.table("Exercise.txt", header = TRUE, sep = ",")
5 fix(branch_data)
6 attach(branch_data)
7
8 summary(Branch)
9 summary(Sales_X1)
10 summary(Advertising_X2)
11 summary(Years_X3)

```

11:18 (Top Level) R Script

Console Terminal Background Jobs

R 4.2.2 C:/Users/it24100356/Desktop/IT24100356/

```

> summary(Branch)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.00   8.25   15.50   15.50   22.75   30.00
> summary(Sales_X1)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  2.500  3.125  3.850  3.790  4.375  5.100
> summary(Sales_X1)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  2.500  3.125  3.850  3.790  4.375  5.100
> summary(Advertising_X2)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  80.0  101.2  132.5  134.8  158.8  210.0
> summary(Years_X3)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.00   3.25   5.50   5.70   7.75  12.00
>

```

03

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

Import Dataset 166 MiB

R Global Environment

Data

branch_data 30 obs. of 4 variables

Files Plots Packages Help Viewer Presentation

Zoom Export Publish

Box plot for Sales

```

1 getwd()
2 setwd("C:\\Users\\it24100356\\Desktop\\IT24100356")
3
4 branch_data <- read.table("Exercise.txt", header = TRUE, sep = ",")
5 fix(branch_data)
6 attach(branch_data)
7
8 summary(Branch)
9 summary(Sales_X1)
10 summary(Advertising_X2)
11 summary(Years_X3)
12 boxplot(Sales_X1, main = "box plot for sales", outline = TRUE, outpch = 8, horizontal = TRUE)

```

13:1 (Top Level) R Script

Console Terminal Background Jobs

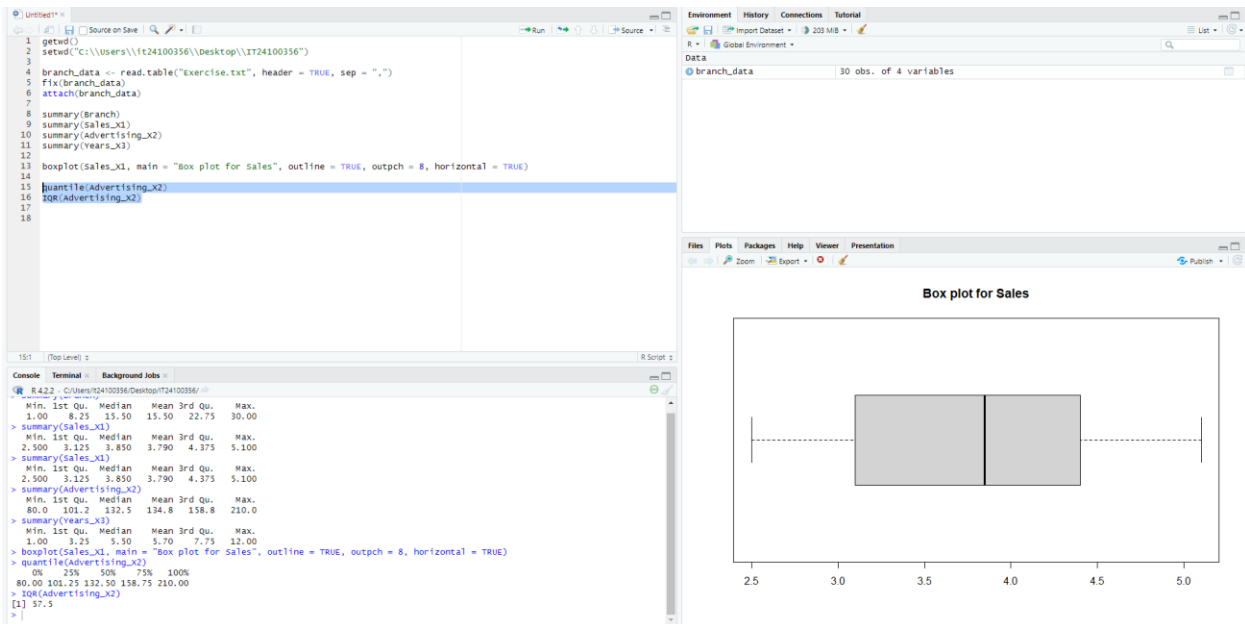
R 4.2.2 C:/Users/it24100356/Desktop/IT24100356/

```

> summary(Branch)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.00   8.25   15.50   15.50   22.75   30.00
> summary(Sales_X1)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  2.500  3.125  3.850  3.790  4.375  5.100
> summary(Sales_X1)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  2.500  3.125  3.850  3.790  4.375  5.100
> summary(Advertising_X2)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  80.0  101.2  132.5  134.8  158.8  210.0
> summary(Years_X3)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.00   3.25   5.50   5.70   7.75  12.00
> boxplot(Sales_X1, main = "box plot for sales", outline = TRUE, outpch = 8, horizontal = TRUE)
>

```

04



05

