Sri Lanka Institute of Information Technology

Lab Submission
Worksheet No-03

IT24103538

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Probability and Statistics - IT2120

B.Sc. (Hons) in Information Technology

```
R 4.2.2 · C:/Users/IT24103538/Desktop/IT24103538/
> branch_data <- read.csv("Exercise.txt", header=TRUE)
> head(branch_data)
  Branch Sales_X1 Advertising_X2 Years_X3
1      1      3.4            120        4
2      2      4.1            150        7
3      3      2.8             90        3
4      4      5.0            200       10
5      5      3.7            110        5
6      6      4.5            175        6
> str(branch_data)
'data.frame':   30 obs. of  4 variables:
 $ Branch        : int  1 2 3 4 5 6 7 8 9 10 ...
 $ Sales_X1      : num  3.4 4.1 2.8 5 3.7 4.5 3 4.9 3.2 2.5 ...
 $ Advertising_X2: int  120 150 90 200 110 175 95 185 105 80 ...
 $ Years_X3      : int  4 7 3 10 5 6 2 9 4 1 ...
>
>
> # 2.
> # Branch - Identifier (Nominal)
> # Sales_X1 - Ratio
> # Advertising_X2 - Ratio
> # Years_X3 - Ratio
>
>
>
> boxplot(branch_data$Sales_X1, main="Boxplot of Sales", ylab="Sales")
>
>
> fivenum(branch_data$Advertising_X2)
[1]  80.0 100.0 132.5 160.0 210.0
> IQR(branch_data$Advertising_X2)
[1] 57.5
>
>
> find_outliers(branch_data$Years_X3)
integer(0)
>
```

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