Bandara R.V.M.R.N

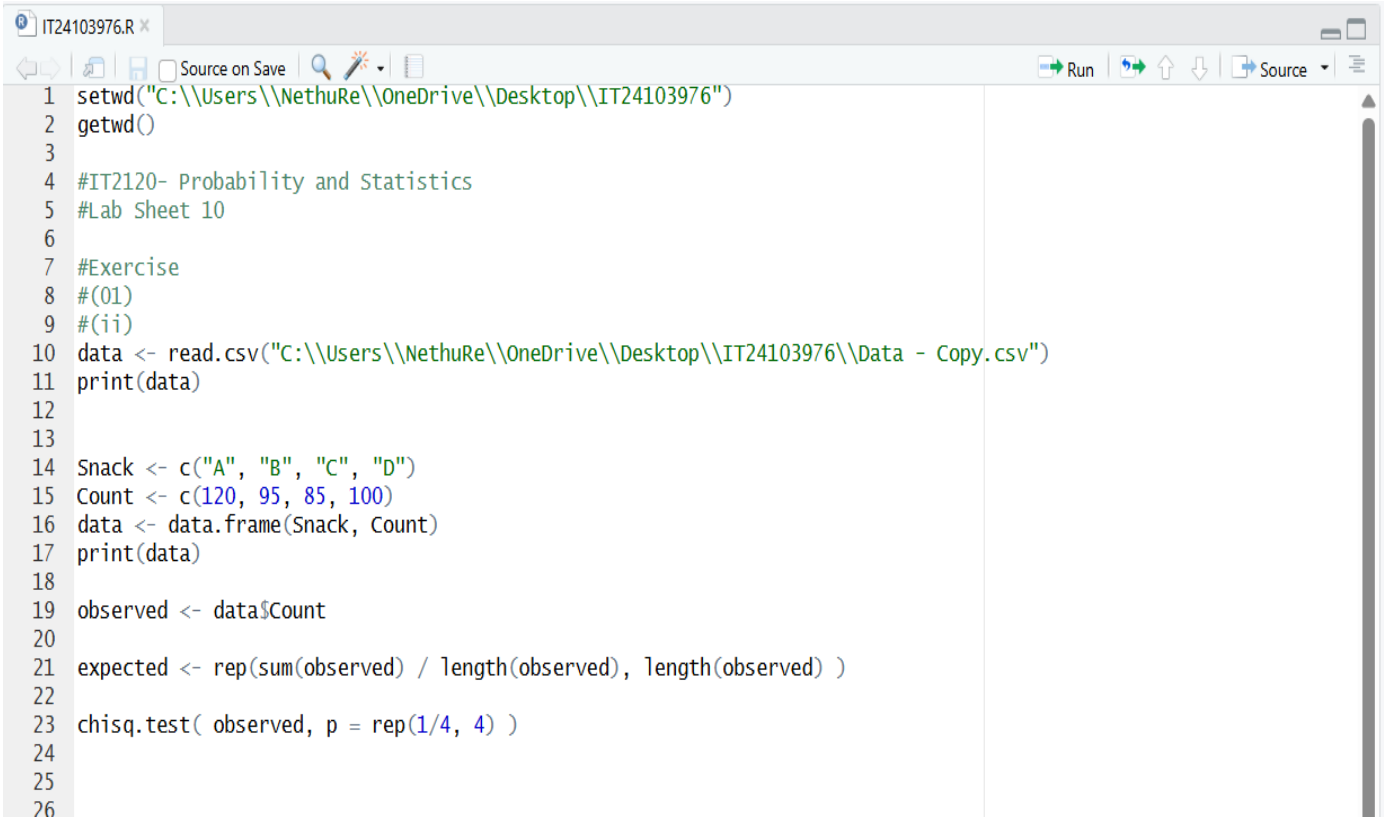
IT24103976

IT2120- Probability and Statistics

Labsheet - 10

Exercise

(01)



```
> setwd("C:\\Users\\NethuRe\\OneDrive\\Desktop\\IT24103976")
> getwd()
[1] "C:/Users/NethuRe/OneDrive/Desktop/IT24103976"
>
> #IT2120- Probability and Statistics
> #Lab Sheet 10
>
> #Exercise
> #(01)
> #(ii)
> data <- read.csv("C:\\Users\\NethuRe\\OneDrive\\Desktop\\IT24103976\\Data - Copy.csv")
> print(data)
           X Wife Alternating Husband Jointly
1     Laundry  156          14       2       4
2   Main_meal  124          20       5       4
3      Dinner   77          11       7      13
4   Breakfeast  82          36      15       7
5     Tidying   53          11       1      57
6      Dishes   32          24       4      53
7    Shopping   33          23       9      55
8    Official   12          46      23      15
9     Driving   10          51      75       3
10   Finances   13          13      21      66
11  Insurance    8           1      53      77
12    Repairs    0           3     160       2
13   Holidays    0           1       6     153
>
>
> Snack <- c("A", "B", "C", "D")
> Count <- c(120, 95, 85, 100)
> data <- data.frame(Snack, Count)
> print(data)
  Snack Count
1     A   120
2     B    95
3     C    85
4     D   100
```

```
> observed <- data$Count
>
> expected <- rep(sum(observed) / length(observed), length(observed) )
>
> chisq.test( observed, p = rep(1/4, 4) )

        Chi-squared test for given probabilities

data:  observed
X-squared = 6.5, df = 3, p-value = 0.08966
```