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Lab sheet 10
1
> setwd("C:\\Users\\User\\Documents\\Lab10 - IT24101418")
> ##Q1
> observed <- c(120, 95, 85, 100)
> prob <- c(.25, .25, .25, .25)
> chisq.test(x=observed, p=prob)
        Chi-squared test for given probabilities
data: observed
X-squared = 6.5, df = 3, p-value = 0.08966
2
 > file_path <- "http://www.sthda.com/sthda/RDoc/data/housetasks.txt"
 > file_path <- "http://www.sthda.com/sthda/RDoc/data/housetasks.txt"
 > housetasks <- read.delim(file_path, row.names = 1)
 > housetasks
            Wife Alternating Husband Jointly
 Laundry
             156
                          14
                                  2
                                          4
 Main_meal
            124
                          20
                                  5
                                          4
 Dinner
              77
                          11
                                  7
                                         13
 Breakfeast 82
                          36
                                 15
                                          7
                                          57
 Tidying
             53
                          11
                                  1
 Dishes
                          24
             32
                                  4
                                          53
 Shopping
                          23
                                  9
             33
                                         55
 official
             12
                          46
                                 23
                                         15
 Driving
            10
                          51
                                 75
                                         3
 Finances 13
                          13
                                 21
                                          66
 Insurance
              8
                          1
                                  53
                                          77
                          3
              0
 Repairs
                                160
                                          2
 Holidays
              0
                          1
                                  6
                                        153
 > chisq <- chisq.test(housetasks)</pre>
 > chisq
         Pearson's Chi-squared test
 data: housetasks
 X-squared = 1944.5, df = 36,
 p-value < 2.2e-16
```

>

```
> ##Q3

> #Consider 25% level of significant for the class

> #Rejection Region: if the p value for the test is less than 0.25,

> #Reject the null hypothesis at 25% level of significant

> #P value for the test got as 2.2e-16

> |
```