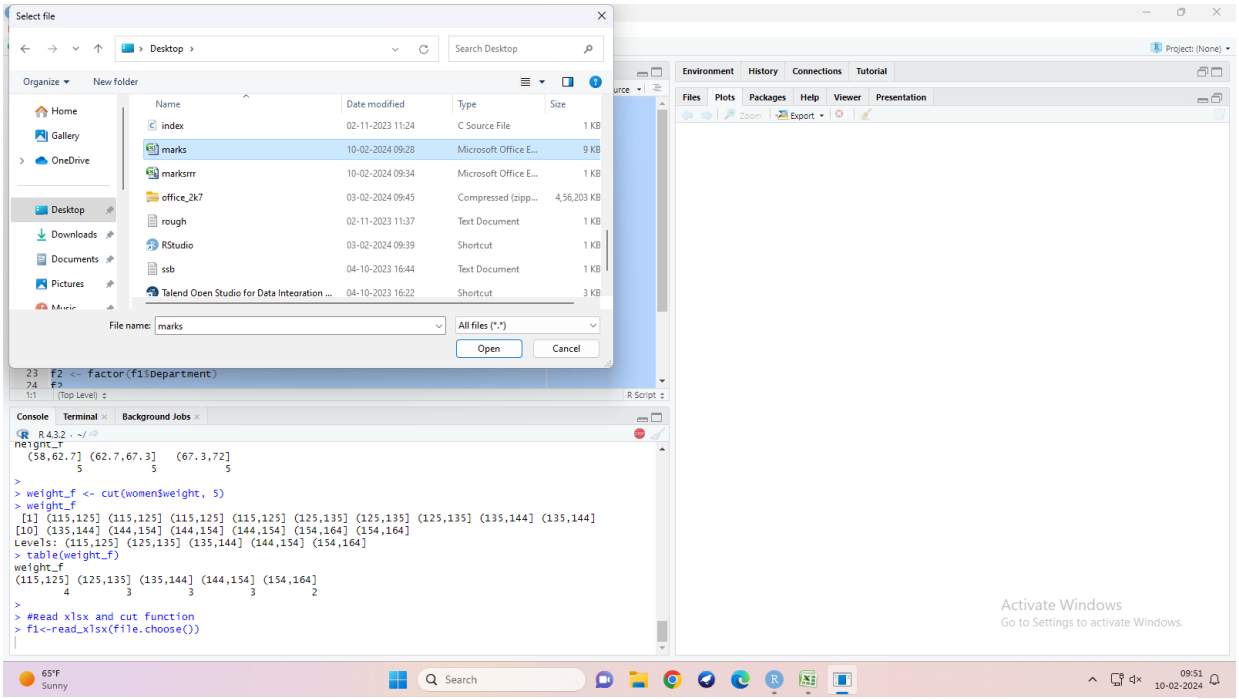
```
#Factors
val <- c(1,2,3,4,5,1,3,5,6,6,8,9,7,6)
val_f <- factor(val)
val_f
table(val_f)

#Women dataset and cut function
data <- women
data

height_f <- cut(women$height, 3)
height_f
table(height_f)

weight_f <- cut(women$weight, 5)
weight_f
table(weight_f)

#Read xlsx and cut function
f1<-read_xlsx(file.choose())
f1

f2 <- factor(f1$Department)
f2

f3 <- factor(f1$Marks)
f3

f4 <- cut(f1$Marks, 5)
f4
table(f4)

f5 <- summary(f1)
f5
```




```
> #Factors
> val <- c(1,2,3,4,5,1,3,5,6,6,8,9,7,6)
> val_f <- factor(val)
> val_f
 [1] 1 2 3 4 5 1 3 5 6 6 8 9 7 6
Levels: 1 2 3 4 5 6 7 8 9
> table(val_f)
val_f
1 2 3 4 5 6 7 8 9
2 1 2 1 2 3 1 1 1
>
> #women dataset and cut function
> data <- women
> data
   height weight
1       58    115
2       59    117
3       60    120
4       61    123
5       62    126
6       63    129
7       64    132
8       65    135
9       66    139
10      67    142
11      68    146
12      69    150
13      70    154
14      71    159
15      72    164
>
```

```
> height_f <- cut(women$height, 3)
> height_f
 [1] (58,62.7]   (58,62.7]   (58,62.7]   (58,62.7]   (58,62.7]   (62.7,67.3] (62.7,67.3] (62.7,67.3
 [9] (62.7,67.3] (62.7,67.3] (67.3,72]   (67.3,72]   (67.3,72]   (67.3,72]   (67.3,72]
Levels: (58,62.7] (62.7,67.3] (67.3,72]
> table(height_f)
height_f
  (58,62.7] (62.7,67.3]   (67.3,72]
          5           5           5
>
> weight_f <- cut(women$weight, 5)
> weight_f
 [1] (115,125] (115,125] (115,125] (115,125] (125,135] (125,135] (125,135] (135,144] (135,144]
[10] (135,144] (144,154] (144,154] (144,154] (154,164] (154,164]
Levels: (115,125] (125,135] (135,144] (144,154] (154,164]
> table(weight_f)
weight_f
(115,125] (125,135] (135,144] (144,154] (154,164]
        4         3         3         3         2
>
> #Read xlsx and cut function
> f1<-read_xlsx(file.choose())
> f1
# A tibble: 10 x 4
      ID Name     Department Marks
   <dbl> <chr>    <chr>      <dbl>
 1     1 Arpit    Comp          99
 2     2 Raj      CSE           82
 3     3 Aniket   IT            84
 4     4 Kumar    Comp          98
 5     5 Sharma   IT            90
 6     6 Mukund   CSE           93
 7     7 vedang   ECE           95
 8     8 Sherpura ECE           87
 9     9 Harsh    Comp          96
10    10 Pushkar  IT            92
>
> f2 <- factor(f1$Department)
> f2
 [1] Comp CSE  IT   Comp IT   CSE  ECE  ECE  Comp IT
Levels: Comp CSE ECE IT
>
> f3 <- factor(f1$Marks)
> f3
 [1] 99 82 84 98 90 93 95 87 96 92
Levels: 82 84 87 90 92 93 95 96 98 99
>
> f4 <- cut(f1$Marks, 5)
> f4
 [1] (95.6,99]   (82,85.4]   (82,85.4]   (95.6,99]   (88.8,92.2] (92.2,95.6] (92.2,95.6] (85.4,88.8]
 [9] (95.6,99]   (88.8,92.2]
Levels: (82,85.4] (85.4,88.8] (88.8,92.2] (92.2,95.6] (95.6,99]
> table(f4)
f4
  (82,85.4] (85.4,88.8] (88.8,92.2] (92.2,95.6]   (95.6,99]
          2           1           2           2           3
>
> f5 <- summary(f1)
> f5 <- summary(f1)
> f5
       ID             Name             Department            Marks
 Min.   : 1.00   Length:10          Length:10          Min.   :82.00
 1st Qu.: 3.25   Class :character   Class :character   1st Qu.:87.75
 Median : 5.50   Mode  :character   Mode  :character   Median :92.50
 Mean   : 5.50                                         Mean   :91.60
 3rd Qu.: 7.75                                         3rd Qu.:95.75
 Max.   :10.00                                         Max.   :99.00
```