```
R version 4.0.2 (2020-06-22) -- "Taking Off Again"
Copyright (C) 2020 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

  Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

[Previously saved workspace restored]

> ?factor
starting httpd help server ... done
> #Experiment:2
> #Reg.No.-19BCD7143
> #Name-Amlan Shivam Nayak
> #SlotL1
> x=c(1,0,0,0,0,1)
> sex=factor(x,labels=c("F","M"))
> sex
[1] M F F F F M
Levels: F M
> y=c(1,2,2,1,1,2)
> smk=factor(y,labels=c("Smockers","Non-Smockers"))
> smk
[1] Smockers     Non-Smockers Non-Smockers Smockers     Smockers     Non-Smockers
Levels: Smockers Non-Smockers
> data.frame(sex,smk)
  sex          smk
1   M     Smockers
2   F Non-Smockers
3   F Non-Smockers
4   F     Smockers
5   F     Smockers
6   M Non-Smockers
> empid=c(1,2,3,4,5,6,7,8,9,10)
> age=c(30,37,40,32,34,43,32,23,43,18)
> sexr=c(1,0,0,1,0,0,1,0,1,1)
> statusr=c(1,2,2,1,2,1,1,2,2,2)
> sex=factor(sexr,labels=c("male","female"))
> status=factor(statusr,labels=c("Faculty","Staff"))
> empinfo=data.frame(empid,age,sex,status)
> empinfo
   empid age    sex  status
1      1  30 female Faculty
2      2  37   male   Staff
3      3  40   male   Staff
4      4  32 female Faculty
5      5  34   male   Staff
6      6  43   male Faculty
7      7  32 female Faculty
8      8  23   male   Staff
9      9  43 female   Staff
10    10  18 female   Staff
> sexf=subset(empinfo,sex=='female')
> sexf
   empid age    sex  status
1      1  30 female Faculty
4      4  32 female Faculty
7      7  32 female Faculty
9      9  43 female   Staff
10    10  18 female   Staff
> sexm=subset(empinfo,sex=='male')
> sexm
```

```
  empid age  sex  status
2     2  37 male   Staff
3     3  40 male   Staff
5     5  34 male   Staff
6     6  43 male Faculty
8     8  23 male   Staff
> summary(sexf)
     empid           age         sex        status
 Min.   : 1.0   Min.   :18   male  :0   Faculty:3
 1st Qu.: 4.0   1st Qu.:30   female:5   Staff  :2
 Median : 7.0   Median :32
 Mean   : 6.2   Mean   :31
 3rd Qu.: 9.0   3rd Qu.:32
 Max.   :10.0   Max.   :43
> Table1<-table(empinfo$sex,empinfo$status)
> barplot(Table1,beside=T,xlim=c(1,15),ylim=c(0,5),col=c('blue','red'))
> legend("topright",legend=rownames(Table1),fill=c('blue','red'),bty="n")
>
```