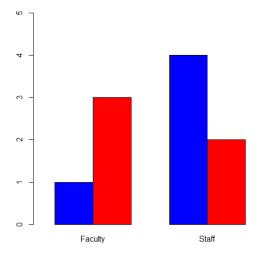
```
R version 4.0.2 (2020-06-22) -- "Taking Off Again"
Copyright (C) 2020 The R Foundation for Statistical Computing
Platform: x86 64-w64-mingw32/x64 (64-bit)
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' 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)
              smk
 sex
         Smockers
  M
2
   F Non-Smockers
3
  F Non-Smockers
4
   F
        Smockers
5
   F
         Smockers
   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 30 female Faculty
1
      2 37 male Staff
2
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
         43 female
9
      9
                     Staff
     10 18 female
                    Staff
10
> sexf=subset(empinfo,sex=='female')
> sexf
   empid age
               sex status
1
      1 30 female Faculty
4
      4 32 female Faculty
7
         32 female Faculty
9
      9
         43 female
      10 18 female
10
                     Staff
> sexm=subset(empinfo,sex=='male')
> sexm
```

R Console Page 2

male female

```
2
        37 male
                   Staff
3
        40 male
                   Staff
5
      5
         34 male
                   Staff
6
        43 male Faculty
      8
        23 male
 summary(sexf)
     empid
                                            status
                Min. :18
      : 1.0
                             male :0
                                        Faculty:3
Min.
 1st Qu.: 4.0
                1st Qu.:30
                             female:5
                                        Staff :2
Median : 7.0
                Median :32
       : 6.2
                Mean
                       :31
 3rd Qu.: 9.0
                3rd Qu.:32
Max. :10.0
                Max. :43
> Table1<-table(empinfo$sex,empinfo$status)</pre>
> 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")
```



empid age sex status