In [1]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  factor(stud)
```

Ram   Sham   Siya   Raj   Ram

▶ **Levels**:

In [6]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  factor(stud,levels=c("Ram","Sham","Siya","Raj"),labels=c("R1","S1","S2","R2"))
```

R1   S1   S2   R2   R1

▶ **Levels**:

In [7]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  factor(stud,levels=c("Ram","Sham","Siya","Raj"),exclude="Ram")
```

<NA>   Sham   Siya   Raj   <NA>

▶ **Levels**:

In [8]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  factor(stud)
3  stud[1]
```

Ram   Sham   Siya   Raj   Ram

▶ **Levels**:

'Ram'

In [9]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  factor(stud)
3  stud[-1]
```

Ram   Sham   Siya   Raj   Ram

▶ **Levels**:

'Sham'   'Siya'   'Raj'   'Ram'

In [11]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  factor(stud)
3  stud[1:3]
```

Ram   Sham   Siya   Raj   Ram

▶ **Levels**:

'Ram'   'Sham'   'Siya'

In [29]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  f<-factor(stud)
3  is.factor(f)
```

TRUE

In [30]:

```
1  stud<-c("Ram","Sham","Siya","Raj","Ram")
2  f<-factor(stud)
3  is.ordered(f)
```

FALSE

In [35]:

```r
stud<-c(1,3,2,4,5,6)
f<-factor(stud)
as.ordered(f)
```

1 3 2 4 5 6

▶ **Levels**:

In [39]:

```r
f1<-c(1,2,3,4)
f2<-c('a','b','c','d')
f3<-factor(f1)
f4<-factor(f2)
sapply(f3,class)
sapply(f4,class)
```

'factor'   'factor'   'factor'   'factor'

'factor'   'factor'   'factor'   'factor'

In [43]:

```r
l1<-levels(f3)[f3]
l2<-levels(f4)[f4]
l3<-factor(c(l1,l2))
sapply(l3,class)
```

'factor'   'factor'   'factor'   'factor'   'factor'   'factor'   'factor'   'factor'

In [ ]:

```r

```