

```
v<-c(1,2,3,4,5)
cha<-c("rakib","shkib","tamim","riyad","miraz")
logic_vec<-c(TRUE,FALSE,TRUE,FALSE,TRUE)
final<-list(v,cha,logic_vec)
final
```

```
## [[1]]
## [1] 1 2 3 4 5
##
## [[2]]
## [1] "rakib" "shkib" "tamim" "riyad" "miraz"
##
## [[3]]
## [1] TRUE FALSE TRUE FALSE TRUE
```

```
a<-list("rakib","shakib",c(1,2,3,4),TRUE,FALSE,TRUE,7L,8L,5.22)
a
```

```
## [[1]]
## [1] "rakib"
##
## [[2]]
## [1] "shakib"
##
## [[3]]
## [1] 1 2 3 4
##
## [[4]]
## [1] TRUE
##
## [[5]]
## [1] FALSE
##
## [[6]]
## [1] TRUE
##
## [[7]]
## [1] 7
##
## [[8]]
## [1] 8
##
## [[9]]
## [1] 5.22
```

```
my_list<-list(c("rakib","shakib","riyad"),c(20,60,90),list("cse","bba","eee"))
my_list
```

```
## [[1]]
## [1] "rakib" "shakib" "riyad"
##
## [[2]]
```

```
## [1] 20 60 90
##
## [[3]]
## [[3]][[1]]
## [1] "cse"
##
## [[3]][[2]]
## [1] "bba"
##
## [[3]][[3]]
## [1] "eee"
```

```
names(my_list)<-c("student","marks","course")
my_list
```

```
## $student
## [1] "rakib" "shakib" "riyad"
##
## $marks
## [1] 20 60 90
##
## $course
## $course[[1]]
## [1] "cse"
##
## $course[[2]]
## [1] "bba"
##
## $course[[3]]
## [1] "eee"
```

```
my_list["student"]
```

```
## $student
## [1] "rakib" "shakib" "riyad"
```

```
my_list["course"]
```

```
## $course
## $course[[1]]
## [1] "cse"
##
## $course[[2]]
## [1] "bba"
##
## $course[[3]]
## [1] "eee"
```

```
my_list$marks
```

```
## [1] 20 60 90
```

```
my_list$course
```

```
## [[1]]  
## [1] "cse"  
##  
## [[2]]  
## [1] "bba"  
##  
## [[3]]  
## [1] "eee"
```

```
a<-list(10:15)  
b<-list(2:7)
```

```
a
```

```
## [[1]]  
## [1] 10 11 12 13 14 15
```

```
b
```

```
## [[1]]  
## [1] 2 3 4 5 6 7
```

```
class(a)
```

```
## [1] "list"
```

```
c<-unlist(a)  
c
```

```
## [1] 10 11 12 13 14 15
```

```
class(c)
```

```
## [1] "integer"
```

```
typeof(c)
```

```
## [1] "integer"
```

```
d<-unlist(b)  
d
```

```
## [1] 2 3 4 5 6 7
```

```
e<-c+d  
e
```

```
## [1] 12 14 16 18 20 22
```

```
v<-list(a,b)  
v
```

```
## [[1]]  
## [[1]][[1]]  
## [1] 10 11 12 13 14 15  
##  
##  
## [[2]]  
## [[2]][[1]]  
## [1] 2 3 4 5 6 7
```