

**DELHI TECHNOLOGICAL
UNIVERSITY**

**PROBABILITY AND STATISTICS (MC-
205)**

PRACTICAL FILE



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EXPERIMENT 2

- (a) Splitting of Files
- (b) Merging of Files

SOURCE CODE:

1. Merging Data from Two Files

```
avghours<- data.frame(sports=c("Basketball","Badminton","Table  
Tennis","Lawn Tennis","Football"), avg_hours= c(2,3,2,1.5,3.5))  
  
numofstudents<-data.frame(num_of_students= c(10,23,65,35,16))  
  
sports<- cbind(avghours,numofstudents)  
  
new<- cbind(sports=c("Cricket"), avg_hours=c(4),  
num_of_students=c(34))  
  
total<-rbind(sports,new)
```

2. Splitting Data from File

```
spt<- split(total, total$num_of_students)
```

OUTPUT:

1. Merging Data from Two Files

```
> avghours
  sports avg_hours
1 Basketball    2.0
2 Badminton    3.0
3 Table Tennis  2.0
4 Lawn Tennis  1.5
5 Football     3.5
> |
```

```
> numofstudents
 num_of_students
1              10
2              23
3              65
4              35
5              16
> |
```

```
> sports
  sports avg_hours num_of_students
1 Basketball    2.0             10
2 Badminton    3.0             23
3 Table Tennis  2.0             65
4 Lawn Tennis  1.5             35
5 Football     3.5             16
> |
```

```
> new
  sports avg_hours num_of_students
[1,] "Cricket"    "4"           "34"
> |
```

```
> total
  sports avg_hours num_of_students
1 Basketball      2             10
2 Badminton      3             23
3 Table Tennis    2             65
4 Lawn Tennis    1.5            35
5 Football       3.5            16
6 Cricket        4              34
> |
```

2. Splitting Data from File

```
> spt
$`10`
  sports avg_hours num_of_students
1 Basketball      2             10

$`16`
  sports avg_hours num_of_students
5 Football    3.5             16

$`23`
  sports avg_hours num_of_students
2 Badminton    3             23

$`34`
  sports avg_hours num_of_students
6 Cricket      4             34

$`35`
  sports avg_hours num_of_students
4 Lawn Tennis  1.5             35

$`65`
  sports avg_hours num_of_students
3 Table Tennis 2             65
```