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
```