

**DELHI TECHNOLOGICAL
UNIVERSITY**

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

PRACTICAL FILE



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EXPERIMENT 5

Descriptive Statistics for Data

SOURCE CODE:

```
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)  
  
x<-as.numeric(total$avg_hours)  
y<-as.numeric(total$num_of_students)  
summary(x)  
summary(y)  
# min,lower-hinge, median,upper-hinge,max  
fivenum(x)  
fivenum(y)
```

OUTPUT:

```
> 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
> |
```

```
> summary(x)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 1.500  2.000   2.500   2.667  3.375   4.000
> y<-as.numeric(total$num_of_students)
> summary(y)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
10.00  17.75   28.50   30.50  34.75   65.00
> |
```

```
> fivenum(x)
[1] 1.5 2.0 2.5 3.5 4.0
> fivenum(y)
[1] 10.0 16.0 28.5 35.0 65.0
> |
```
