DELHI TECHNOLOGICAL UNIVERSITY

PROBABILITY AND STATISTICS (MC-205)

PRACTICAL FILE

SUBMITTED TO:

PROF. JAMKHONGAM TOUTHANG

SUBMITTED BY:

NITYA MITTAL

(2K19/MC/089)

INDEX

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
> 
```