Name :- Shreya Mamgain ①

Father's Name :- Mr. Deepak Mamgain

University Roll No :- 2101208

Course :- MCA

Semester :- 1st

Paper Name :- Scripting language and R lab

Paper code :- PMC 103

Type of Paper :- Regular

Ans 3.

```
# Dplyr library function.

library (dplyr)
setwd ("G:/MCA")
mydata <- read.csv ("most runs.csv")
my data

# Descriptive statistics

summary (my data)
dim (my data)
Str (my data)
names (my data)

# select function

my subdata <- select (my data , batsman, average)
my subdata
```

Shreya Mamgain

```
# filter & arrange funⁿ
mysubdata 1 <- filter (mydata, average >50)
mysubdata 1
my subdata 2 <- arrange (my data, desc(average))
my sub data 3<- arrange (mydata, desc (strikerate))

# Top and Bottom 5 average Batsman
   head (mysubdata 2)
   tail (mysub data 2)

# Different Plot of Dataset

# Histogram
  hist (mydata $ average , col = c("blue', 'green', 'red');
     x lab = " Average", ylab = " Players", break = 50)

# Scattered Plot

 plot (mydata $ strikerate, col= c{"blue', green' , 'red'),
      x lab = "players" , ylab = " strikerate")

# Barplot
 barplot (mydata $ average ; col= c("blue", "green", "red"),
      x lab= "players", ylab = "Average")
```

ShreyaManjain

Box plot

```
boxplot(mydata $ average, col = c('blue', 'green', 'red')
    x lab = "players", ylab = "Average")
```

Shreya Mamgain

Ans 4. # descriptive statistics

summary (mydata)
dim (my data)
str (my data)
names (my data)

Inferential statistics

Chi-squared test

model <- chisq.test (mydata)
model

#Output p.value = 0.446283 > 0.05
Thus 'mydata' is highly correlated and we
accept the NULL Hypothesis

Corelation coefficient

cor (mydata $Batsman, mydata $ runs)

#Output 0.99324 > 0.8
Thus Batsman & runs is strongly correlated
to each other

Shreya Mamgain

Anova Test

mysubdata 4 <- anov(mydata $ runs ~ mydata $average)

mysubdata 4

Output Pr(>F) is 0.0013 as this value is less than
0.05 then we reject NULL Hypotheses and accept
the alternative Hypothesis.

T-test

t.test(mydata, mu=100)

Here p-value is 0.446283 > 0.05
so we accept the NULL Hypothesis.

Shreya Mangain