EXPERIMENT 1:

Question:-

Create your own (Student Record which comprises of Name, Register Number, School, Year, Hosteller/Day Scholar, Gender, Age, DOB) dataset and do the summary statistics and graphs with interpretation

CODE:

```
name=C('ram','ravi','laxmi','siva','ujwal','pradeep','anjum','lasya','kamal','kruthi')

regno=c('19BEC1234','19BCE3456','19BEC1001','19BLC1235','19BEC1678','17BEC1276','18BCE1001','19BLC1290','17BEC1009','19BLC231')

school=c(0,1,0,0,1,0,0,1,1,1)

accom=c(1,0,1,1,0,1,0,0,1,1)

sex=c(0,0,1,0,0,0,1,1,0,1)

age=c(19,18,17,19,18,19,17,19,19,18)

studentinfo=data.frame(name,regno,school,accom,sex,age)

studentinfo$school=factor(studentinfo$school,labels=c('SENSE','SCOPE'))

studentinfo$accom=factor(studentinfo$accom,labels=c('Hosteller','Dayscholar'))

studentinfo$sex=factor(studentinfo$sex,labels=c('Male','Female'))

print(studentinfo)

summary(studentinfo)
```

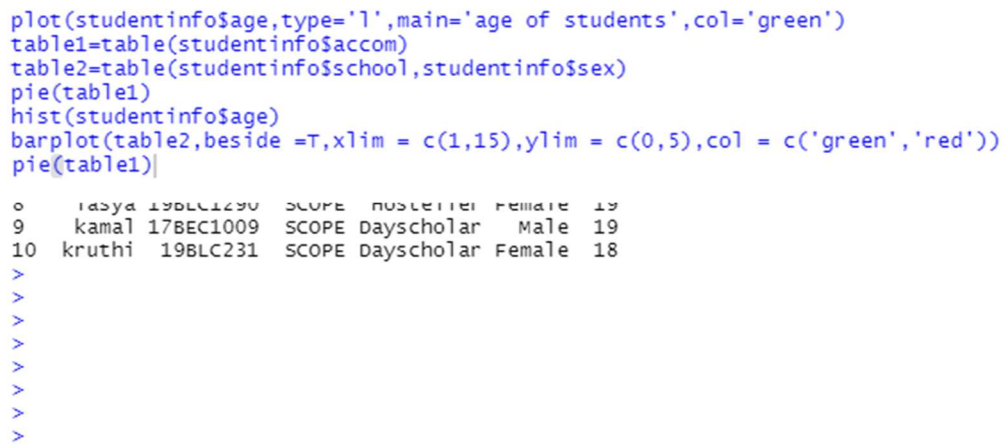
```
plot(studentinfo$age,type='l',main='age of
students',col='green')

table1=table(studentinfo$accom)

table2=table(studentinfo$school,studentinfo$sex)

pie(table1)

hist(studentinfo$age)

barplot(table2,beside =T,xlim = c(1,15),ylim = c(0,5),col =
c('green','red'))

boxplot(studentinfo$age~studentinfo$accom,col=c('red','blu
e'))
```

OUTPUTS:

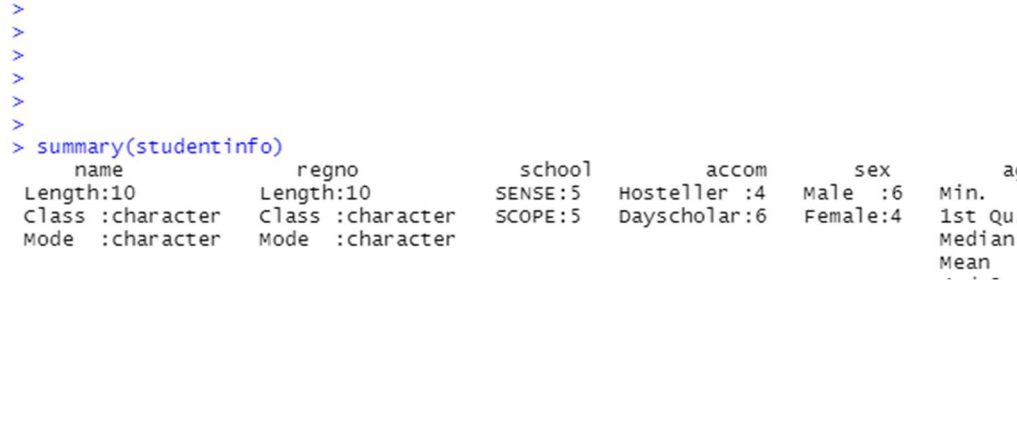
```
regno=c('19BEC1234','19BCE3456','19BEC1001','19BLC1235','19BEC1678','17BEC1276','18BCE1001','19BLC1290','17BEC1009','19BLC2
1')
school=c(0,1,0,0,1,0,0,1,1,1)
accom=c(1,0,1,1,0,1,0,0,1,1)
sex=c(0,0,1,0,0,0,1,1,0,1)
age=c(19,18,17,19,18,19,17,19,19,18)
studentinfo=data.frame(name,regno,school,accom,sex,age)
studentinfo$school=factor(studentinfo$school,labels=c('SENSE','SCOPE'))
studentinfo$accom=factor(studentinfo$accom,labels=c('Hosteller','Dayscholar'))
studentinfo$sex=factor(studentinfo$sex,labels=c('Male','Female'))
print(studentinfo)
    name     regno school      accom    sex age
     ram 19BEC1234  SENSE Dayscholar   Male  19
    ravi 19BCE3456  SCOPE  Hosteller   Male  18
   iaxmi 19BEC1001  SENSE Dayscholar Female  17
    siva 19BLC1235  SENSE Dayscholar   Male  19
   ujwal 19BEC1678  SCOPE  Hosteller   Male  18
 pradeep 17BEC1276  SENSE Dayscholar   Male  19
   anjum 18BCE1001  SENSE  Hosteller Female  17
   lasya 19BLC1290  SCOPE  Hosteller Female  19
```

```
summary(studentinfo)
   name              regno             school         accom       sex         age
ength:10          Length:10          SENSE:5   Hosteller :4   Male  :6   Min.   :17.0
lass :character   Class :character   SCOPE:5   Dayscholar:6   Female:4   1st Qu.:18.0
ode  :character   Mode  :character                                       Median :18.5
                                                                        Mean   :18.3
                                                                        3rd Qu.:19.0
                                                                        Max.   :19.0
```

```
boxplot(studentinfo$age~studentinfo$accom,col=c('red','blue'))
```

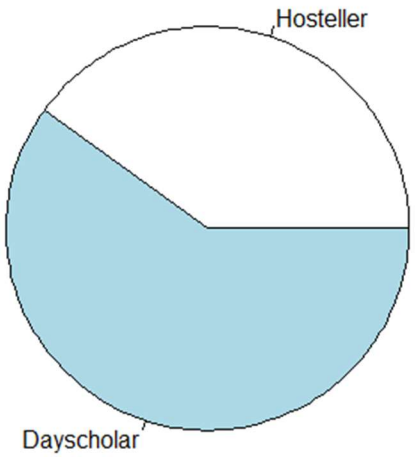


```
plot(studentinfo$age,type='l',main='age of students',col='green')
table1=table(studentinfo$accom)
table2=table(studentinfo$school,studentinfo$sex)
pie(table1)
hist(studentinfo$age)
barplot(table2,beside =T,xlim = c(1,15),ylim = c(0,5),col = c('green','red'))
pie(table1)
```

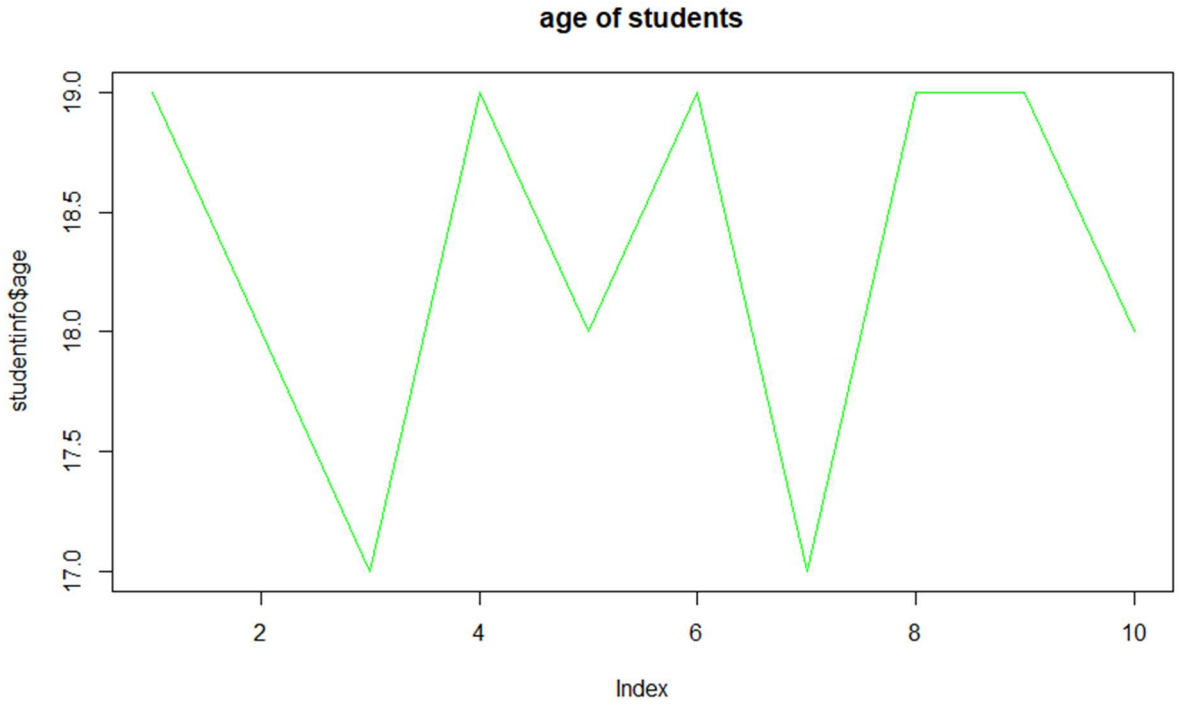


```
8     lasya 19BLC1290  SCOPE  Hosteller Female  19
9     kamal 17BEC1009  SCOPE Dayscholar   Male  19
10  kruthi  19BLC231   SCOPE Dayscholar Female  18
>
>
>
>
>
>
>
>
>
>
>
>
>
> summary(studentinfo)
     name              regno             school         accom       sex         age
 Length:10          Length:10          SENSE:5   Hosteller :4   Male  :6   Min.   :17.0
 Class :character   Class :character   SCOPE:5   Dayscholar:6   Female:4   1st Qu.:18.0
 Mode  :character   Mode  :character                                       Median :18.5
                                                                         Mean   :18.3
```

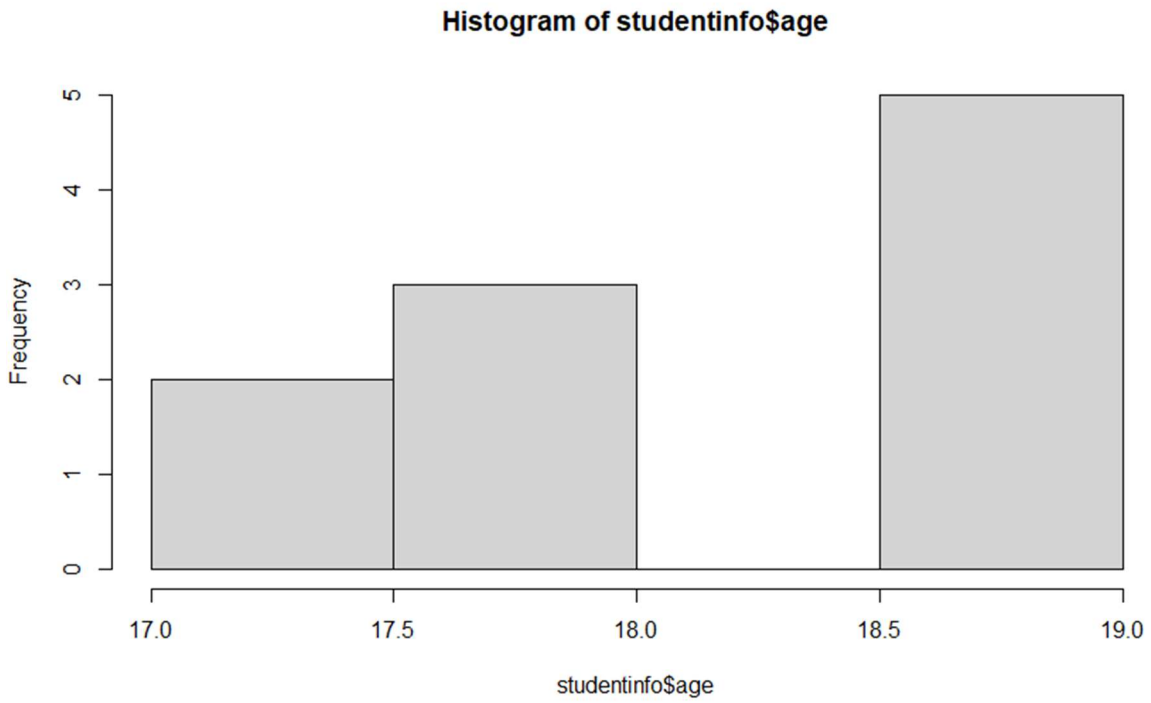
PIE CHART:



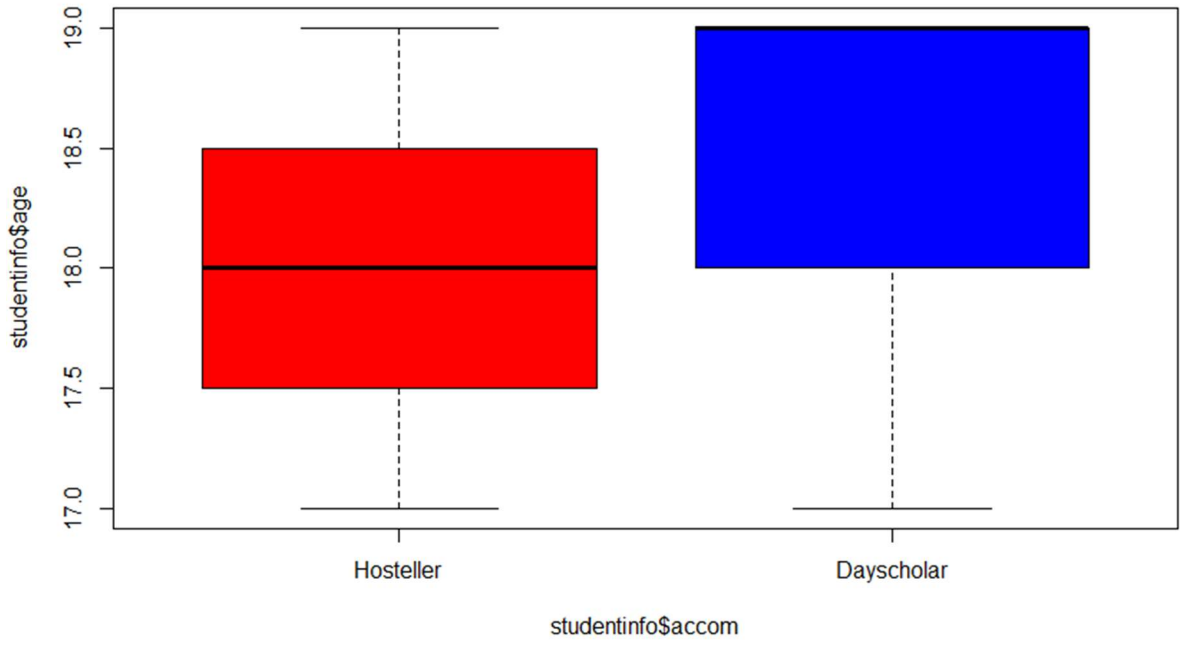
PLOT:



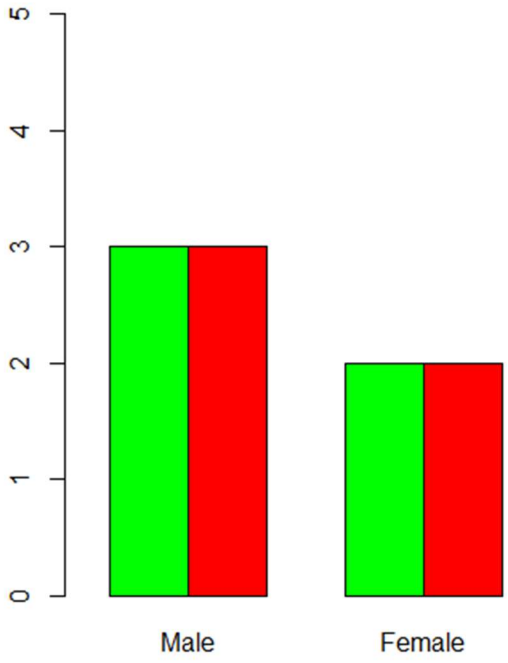
HISTOGRAM:



BOXPLOT:



BARPLOT:



TABLES:

studentinfo	10 obs. of 6 variables
values	
accom	num [1:10] 1 0 1 1 0 1 0 0 1 1
age	num [1:10] 19 18 17 19 18 19 17 19 19 18
name	chr [1:10] "ram" "ravi" "iaxmi" "siva" "ujwal" "pradeep" "anjum" "lasya" …
regno	chr [1:10] "19BEC1234" "19BCE3456" "19BEC1001" "19BLC1235" "19BEC1678" ...
school	num [1:10] 0 1 0 0 1 0 0 1 1 1
sex	num [1:10] 0 0 1 0 0 0 1 1 0 1
table1	'table' int [1:2(1d)] 4 6

studentinfo	10 obs. of 6 variables
values	
accom	num [1:10] 1 0 1 1 0 1 0 0 1 1
age	num [1:10] 19 18 17 19 18 19 17 19 19 18
name	chr [1:10] "ram" "ravi" "iaxmi" "siva" "ujwal" "pradeep" "anjum" "lasya" …
regno	chr [1:10] "19BEC1234" "19BCE3456" "19BEC1001" "19BLC1235" "19BEC1678" ...
school	num [1:10] 0 1 0 0 1 0 0 1 1 1
sex	num [1:10] 0 0 1 0 0 0 1 1 0 1
table1	'table' int [1:2(1d)] 4 6
table2	'table' int [1:2, 1:2] 3 3 2 2